

```

ctgtgcaccc gagtgtcctt tcccccttaa gctggcacat aggagcaaaa gttcactaac 60
cctgcagtgg aaggcaccaa ttgacaacgg ttcaaaaatc accaactacc ttttagagtg 120
ggatgagggg aaagaaatag tggtttcaga cagtgtctct tcgggagcca gaagcactgc 180
aagttgacaa agctttgtcc ggcaatgggg tacacattca ggctggccgc tcgaaacgac 240
attggtacca gtggttatag ccaagaggtg gtgtgctaca cattaggaaa tatccctcag 300
atgccttctg caccaaggct ggttcgagct ggcacacat gggtcacgtt gcagtggagt 360
aagccagaag gctgttcacc cgaggaagtg atcacctaca ccttggaat tcaggaggat 420
gaaaatgata accttttcca cccaaaatac actggagagg atttaacctg tactgtgaaa 480
aatctcaaaa gaagcacaca gtataaattc aggtgactg cttct 525

```

<210> 907

<211> 365

<212> DNA

<213> Homo sapiens

<400> 907

```

gtaaatttta agtcttttcag ttttatagat acggaaaaca agggtgactc tttaccacag 60
gatgaataaa gaactaagta atatgggaaa tgcagcaatt tctggactag ctgagccgat 120
tccttcctgt gagcacactg taagctttca agttctctgg gcaggaatta cagcacctgt 180
cccctgcaat ggccctgctg tgtgatgctc atcgttccc ttcgtgctgg agcagtcccc 240
caggtgtcca tctcctatct ttttgttcca atcttctgtg agttccagct agcaggcttt 300
acatctgggg aaaggaaaac caggggtttt agctctgttc tctgctccca tccttcgctc 360
accag 365

```

<210> 908

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 594

<223> n = A,T,C or G

<400> 908

```

cggaggtgcc tcagccatgg catggatccc tctcttcctc ggcgctccttg cttactgcac 60
aggacgtgcg gcctcctttg aggtgaccca gccaccttca atgtccgtgt ccccaggaca 120
gacagccaag atcacctgca ctggagatag gttgggggat gaatatgttt gctggtatca 180
acagaagcca ggccagtccc ctgtattgat aatatatttg gataacaagc ggccctcggg 240
gatccctgac cgattctctg cctacgcctc tgggaacaca gccactctga tcatcagcgg 300
ggcccaagtt atggatgagg cttattatta ctgtcaggcg tgggacggca gaactgtggt 360
gttcggcgaa gggaccaacc tgaccgtcct aggtcagccc aaggctgccc cctcggtcac 420
tctgttcccg cctcctctg aggagcttca agccaacaag gccacactgg tgtgtctcat 480
aagtgacttc taccggggag ccgtgacagt ggctggaag gcagatagca gccccgtcaa 540
ggcgggagtg gagaccacca caccctcaa acaaagcaac aacaagtacg cggncagcag 600
ctatctga 608

```

<210> 909

<211> 513

<212> DNA

<213> Homo sapiens

<400> 909

```

ctggtctcaa actcctcacc tcaactgata cgcccacctt ggcctcccaa agtgctggga 60

```



```

cctggacacc ataaggctgg tgggctttca gaattgtgtt aggggggcag gagtggcagg 60
ttcctgaatc tcggtcaata tagtaaccag caggacaaga ggtgcaggag gagcccacat 120
cagaggcttc tagggcacag ggacggcagt aggaggccac gccattcata acattgggtga 180
cattgatgga gtagatcttg gcaacgtcat tgggtgtaact cctgcttgcc tcatgaaaag 240
tggctcctctg gaaggcccag gtgaggctcg tggtagtggt ctctcaatg atgtaggtat 300
aggactgttt gcctttggaa cctttccacg tctccacagg agtggttggtc ctagaattca 360
caccaccat gaagtagagc tcacagttca cagaacagag ggtctcaaag acaaattgtga 420
ttctgg                                     426

```

```

<210> 914
<211> 252
<212> DNA
<213> Homo sapiens

```

```

<400> 914
ccaagctggg ggtgcgcaca tgtggaagaa ctggaggccc ggtgtcatga gcagaggctg 60
taccctagat gcccgcccca gtgccagcca acccaagaca ggagaaagag tttggcagtt 120
tcgcctctga ggaatacatg cctggccctc ctgtgaggtg aggcggtagg ggggaaggcg 180
caggtccga agtctgaggg cttgccggag ggggagtttc tgagcctttt gcatgggtgc 240
atgccccctg cc                                     252

```

```

<210> 915
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 915
ccactgggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60
tgagccaggc tgtttcctct ctatccagag gttttgtagt ttaataaaa ccatcctctg 120
gattaatagt gaaaaatctg tcgaggtcag tgtgacgatc gatggaatac cttatcgggc 180
tgttggcagc atcagggtct ttggcatgca ctctcccaac cacggtgcca gcag      234

```

```

<210> 916
<211> 366
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 338
<223> n = A,T,C or G

```

```

<400> 916
ccattcagtc tcanttcaga aaattccaga agaagaaggc tgggtctcag tcctagtggg 60
agaacccccct cctagtccac ctgaaaacac caaattcaac catcatctgt caagaaatta 120
aaagaacaac accctagaga gaagtcattc acacacaatc cacacacgca tagcaaacct 180
ccaatgcatg tacagaaacc tgtgatattt atacccttgt aggaaggatg agacaattgga 240
attgtgagta gcttaatctc tatgtttctc tccattttca ttctcctgc aactattttc 300
cttgatgttg taataaaatg aagttacgat gagtgatnaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaa                                     366

```

```

<210> 917
<211> 492
<212> DNA

```

<213> Homo sapiens

<400> 917

```
ggcacagcga gggcagcatc tggaggagct ctgcagcctc cacacctacc acgacctccc 60
agggctgagc tcaggaaaaa ccagccactg ctttacagga caggggggtg aagctgagcc 120
ccgcctcaca cccacccccca tgcactcaaa gattggattt tacagctact tgcaattcaa 180
aattcagaag aataaaaaat gggaacatac agaactctaa aagatagaca tcagaaattg 240
ttaagttaag ctttttcaaa aaatcagcaa ttccccagcg tagtcaaggg tggacactgc 300
acgctctggc atgatgggat ggcgaccggg caagctttct tcctcgagat gctctgctgc 360
ttgagagcta ttgctttggt aagatataaa aaggggtttc tttttgtctt tctgtaaggt 420
ggtcttccag cttttgattg aaagtccctag ggtgattcta tttctgctgt gatttatctg 480
ctgaaagctc ag                                     492
```

<210> 918

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 527

<223> n = A,T,C or G

<400> 918

```
ctgctcctgg gtaggcgtgc gggccatata gtaggggtag gatactagcc gtcgcccgcc 60
gttcagattt gtcgccagca cgaaggggtt cttctccatc caggcaatga tggcccggac 120
ctcgtggat accgtggcat ctggcgaaaag gtagcggtca gggatgggca agttattgtt 180
ggggaccggg taggggaccc atttcctctc ctcagctccc cagagcacag agttgagatc 240
cgggaaatct tcaaagatgt caaagccctc ctcagtccac agtcccagcg cccagttccc 300
aaactctgag cccatctgcy ctgccacctc gtagccatca gggttcagtg agggcaccag 360
gtggatgcgt gtgtcctgca ccaggtgcg cacacgtggg ttcccatcgc ggtactctcg 420
gcacaggtac tgcatgagca gcagcaacag ctctcggccc agcacctcgt tgccatggat 480
cccagcagtg tagcggaact cgggctcccc cagttcatgc tccccanggt tgtctgagat 540
ctccatggca tagatct                                     557
```

<210> 919

<211> 407

<212> DNA

<213> Homo sapiens

<400> 919

```
ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgaccagc ctaccagcaa 180
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcatcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaga 300
ttccagtcta agtatgagcc ccggagccac atgatggacg tccagggtc caccaggagc 360
tcggccatca aggacttcgt gctgaagtac gcctcgcccc tggttgg                                     407
```

<210> 920

<211> 340

<212> DNA

<213> Homo sapiens



<400> 923  
ccactggggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60

```

tgagccaggc tgtttcctct ctatccagag gttttgtagt ttttaataaaa ccatcctctg 120
gattaatagt gaaaaatctg tcgagggtcag tgtgacgac gatggaatac cttatcgggc 180
tggtggcagc atcagggtct ttggcatgca ctctcccaac cacggtgcca gcag 234

```

```

<210> 924
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 924
ccaggattga caggccatcc attcacagcc aggagatgct gggccagttc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctgaggtgac 120
tggagccccga gggcctgaca ggttcccagc ag 152

```

```

<210> 925
<211> 400
<212> DNA
<213> Homo sapiens

```

```

<400> 925
caatatcatg ccaaggaccc aaacaacctc ttcattggtgc gcttggcaca gggcctgaca 60
catttaggga agggcaccct taccctctgc ccctaccaca gcgaccggca gcttatgagc 120
caggtggccg tggtctggact gctcactgtg cttgtctctt tcctggatgt tcgaaacatt 180
attctaggca aatcacacta tgtattgtat gggctggtgg ctgccatgca gccccgaatg 240
ctggttacgt ttgatgagga gctgcggcca ttgccagtgt ctgtccgtgt gggccaggca 300
gtggatgtgg tgggccaggc tggcaagccg aagactatca cagggttcca gacgcataca 360
acccagtggt tgttggccca cggggaacgg gcagaattgg 400

```

```

<210> 926
<211> 521
<212> DNA
<213> Homo sapiens

```

```

<400> 926
ccacgtccct attttagaaa tgagaggagt gactgcacac aggaaaaatg ccacttttag 60
caattcaaag tggaaaaact tcttttatat aaaaattatc ccaactcca ccccttggct 120
ctcagtgttg catctccac agaggtaaag ttgtgccatt tcccacggc tttaaacaaa 180
gcaaaacaaa accaccaatc ctaataacct cctccctgc cccgtctcca cgtgtgcgg 240
agagggtctc agccccctcag tcggacttct ccttctcctt catgtgcaag aagacgatgc 300
tgaagatgaa gagccccagc atcatggaga aggcgctggc gtagtagggg taggccgagg 360
ggatgaagcg ctcatactgc gtgtgctgga gtggccgcac ggatacctga gtggaagagt 420
acagggtgtg ttagcctagc cggttgtaat ccacttttaa ctggaataca ccatacacgt 480
cgggcaactt gaactgaaca ctgtatttgc cacttttctt c 521

```

```

<210> 927
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<400> 927
ccaggctagt ctggaactcc tgacctcagg tgatctgcct gcctcggcct cccaaagtgc 60
tgggattacc ggcgtgagcc accatgcctg gccttacatt ttttaaaatg aggggaacaaa 120
tgaataaatg accaccatgt taggggctgg ctctgaacag aattgtaaag tgggccaagc 180
ttgctctcaa ggtcacctta agccacgggt tgctgtgtcc tgccctctca gggtcatttc 240

```

```
<210> 928
<211> 492
<212> DNA
<213> Homo sapiens
```

```
<210> 929
<211> 209
<212> DNA
<213> Homo sapiens
```

```
<210> 930
<211> 617
<212> DNA
<213> Homo sapiens
```

|       |     |
|-------|-----|
| <210> | 931 |
| <211> | 521 |
| <212> | DNA |

<400> 931

<210> 932

<212> DNA

<213> Homo sapiens

<400> 932

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| ccttgtgacc | aattacatat  | gattaaaaatt | acttcccaca | ttcacatcca | cagtactcgt | 60  |
| ccaccattta | acatctcaac  | caaaacgtta  | cacatgtgaa | acaatcacta | acaggcaaaa | 120 |
| atactaaacc | tgtatatattg | gtattgcaaa  | tacacttatg | catgagcaag | caagggattc | 180 |
| acagtgagaa | tctacag     |             |            |            |            | 197 |

<210> 933

<211> 610

<212> DNA

<213> Homo sapiens

<400> 933

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| cctcctttta | acaatatctt  | ttttttgctc | ttctgcttcc | aaaccttatt | tgccaatgta  | 60  |
| atgcctttat | ataaagttct  | tatgatgaat | gaaaaacttt | caagtgctgt | tgccctatta  | 120 |
| aatgcattat | ttattaattt  | aacttctagt | actctcgata | aagagccagt | gaaatgagtt  | 180 |
| attgagttcc | agggaaaaaa  | atgagaacat | aattttgaat | ttattatctc | tctatacaca  | 240 |
| cacagttcat | aattggatta  | catataataa | taatatcaac | aagtctatca | gtatcgaagt  | 300 |
| tggatactgg | taattttctca | tgtgaggctc | ttgtgtcaca | gtcagcatag | attttctggag | 360 |
| catttgtctg | ttgatctttt  | ggtggcctca | aacctcatta | agtgggtgtg | gagatgctgt  | 420 |
| ttctgccatg | tgagaatgtg  | atggcagaat | taacacaacc | ccaccagggg | tacaacagag  | 480 |
| cactttacat | ccaaaggcag  | agagggacac | agcaatgcag | aatttcagca | cacttaagag  | 540 |
| gagcaccatg | ccatccagac  | ccattaagat | ggacatagtc | ccatgacaat | tattttgagtt | 600 |
| gccatagtag |             |            |            |            |             | 610 |

<210> 934

<211> 384

<212> DNA

<213> Homo sapiens

<400> 934

|             |            |            |            |             |             |     |
|-------------|------------|------------|------------|-------------|-------------|-----|
| ctgctaccag  | gggagcgaga | gctgactatc | ccagcctcgg | ctaattgtatt | ctacgccatg  | 60  |
| gatggagctt  | cacacgattt | cctcctgctg | cagcggcgaa | ggtcctctac  | tgctacacct  | 120 |
| ggcgctacca  | gtggcccgtc | tgctcagga  | actcctctga | gtaggggag   | agggggctcc  | 180 |
| tttcccagga  | tcaaggccac | agggaggaag | attgcacggg | cactgttctg  | agggaagaagc | 240 |
| cccgattggct | tcacagaagt | attggtgttc | taccagatgt | gggtagccat  | ctcgaattggt | 300 |
| qccgaattata | tcacatttga | acaqaaattc | aqaaagggag | ccagccacc   | tggggcagtg  | 360 |

384

```
<220>  
<221> misc_feature  
<222> 1, 23, 24  
<223> n = A,T,C or G
```

```
<210> 936
<211> 546
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 519  
<223> n = A,T,C or G
```

```
<210> 937
<211> 550
<212> DNA
<213> Homo sapiens
```

| <400> 937  |             |             |            |            |            |     |  |
|------------|-------------|-------------|------------|------------|------------|-----|--|
| caccaatcaa | aattcctggt  | ggctcctgaga | ctttgggcag | aatcatgaat | gtcattggag | 60  |  |
| aacctattga | tgaaagaggt  | cccatcaaaa  | ccaaacaatt | tgctcccatt | catgctgagg | 120 |  |
| ctccagaggt | catggaaatg  | agtgttgagc  | aggaaattct | ggtgactggt | atcaagggtg | 180 |  |
| tcgatctgct | agctccctat  | gccaaagggtg | gcaaaatttg | gctttttggt | ggtgctggag | 240 |  |
| ttggcaagac | tgtactgata  | atggagttaa  | tcaacaatgt | cgccaaagcc | catggtggtt | 300 |  |
| actctgtggt | tgctggtggt  | ggtgagagga  | cccgtgaagg | caatgattta | taccatgaaa | 360 |  |
| tgattgaatc | tggtggttatc | aacttaaaag  | atgccacctc | taaggtagcg | ctggtatatg | 420 |  |
| gtcaaatgaa | tgaaccacct  | ggtgctcggt  | cccgggtagc | tctgactggg | ctgactgtgg | 480 |  |
| ctgaatactt | caqaaccaa   | gaaggtcaag  | atgtactgct | atttattgat | aacatctttc | 540 |  |

550

```
<220>
<221> misc_feature
<222> 28, 63, 148, 153
<223> n = A,T,C or G
```

```
<210> 939
<211> 337
<212> DNA
<213> Homo sapiens
```

```
<210> 940
<211> 362
<212> DNA
<213> Homo sapiens
```

```
<210> 941
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<400> 941
ctggacatct ttccagcccg ggatacctac catcctatga gcgagtaccc cacctaccac 60
accatgggc gctatgtgcc ccctagcagt accgatcgta gccctatga gaaggtttct 120
gcaggtaatg gtggcagcag cctctcttac acaaaccag cagtggcagc cacttctgcc 180
```

aacttgtagg ggcatgtcgc ccgctgagct gagtgg

216

<210> 942

<211> 324

<212> DNA

<213> Homo sapiens

<400> 942

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgattggct | tcaggccccc | tacctctata | aactctacca | gcattactac | ttcctggaag | 60  |
| gtcaaattgc | catectatat | gtctgtggcc | ttgcctctac | agtcctcttt | ggcctagtgg | 120 |
| cctcctccct | tgtggattgg | ctgggtcgca | agaattcttg | tgtcctcttc | tccctgactt | 180 |
| actcactatg | ctacttaacc | aaactctctc | aagactactt | tgtgctgcta | gtggggcgag | 240 |
| cacttggtgg | gctgtccaca | gccctgctct | tctcagcctt | cgaggccagg | gagcctcaaa | 300 |
| tcttcagtct | ctcagagacc | acag       |            |            |            | 324 |

<210> 943

<211> 597

<212> DNA

<213> Homo sapiens

<400> 943

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| ctgacaaaat | tcctgggtta | ctaggtgtct | ttcagaagct  | gattgcatcc | aaagcaaatg | 60  |
| accaccaagg | tttttatctt | ctaaacagta | taatagagca  | catgcctcct | gaatcagttg | 120 |
| accaatatag | gaaacaaatc | ttcattctgc | tattccagag  | acttcagaat | tccaaaacaa | 180 |
| ccaagtttat | caagagtttt | ttagtcttta | ttaatttgta  | ttgcataaaa | tatggggcac | 240 |
| tagcactaca | agaaatattt | gatggtatac | aacccaaaaat | gtttggaatg | gttttggaag | 300 |
| aaattattat | tcctgaaatt | cagaaggtat | ctggaaatgt  | agagaaaaag | atctgtgcgg | 360 |
| ttggcataac | caaattacta | acagaatgtc | ccccaatgat  | ggacactgag | tataccaaac | 420 |
| tgtggactcc | attattacag | tctttgattg | gtctttttga  | gttaccgaa  | gatgatacca | 480 |
| ttcctgatga | ggaacatttt | attgacatag | aagatacacc  | aggatatcag | actgccttct | 540 |
| cacagttggc | atttgctggg | aaaaaaagag | catgatcctg  | taggtcaaat | ggtgaat    | 597 |

<210> 944

<211> 359

<212> DNA

<213> Homo sapiens

<400> 944

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ctggaagagg | aaaaggagat | actgcagaaa | gaactctctc | aacttcaagc | tgacacaggag | 60  |
| aagcagaaaa | caggtactgt | tatggatacc | aaggtcagtg | aattaacaac | tgagatcaaa  | 120 |
| gaactgaaag | aaactcttga | agaaaaaacc | aaggaggcag | atgaatactt | ggataagtac  | 180 |
| tgttccttgc | ttataagcca | tgaaaagtta | gagaaagcta | aagagatggt | agagacacaa  | 240 |
| gtggcccatc | tgtgttcaca | gcaatctaaa | caagattccc | gagggtctcc | tttgctaggt  | 300 |
| ccagttgttc | caggaccatc | tccaatccct | tctgttactg | aaaagagggt | atcatctgg   | 359 |

<210> 945

<211> 367

<212> DNA

<213> Homo sapiens

<400> 945

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| caggatctga | agtttggggg | cgagcaggat | gttgatatgg  | tgtttgcgtc | attcatccgc | 60  |
| aaggcatctg | atgtccatga | agttaggaag | gtcctgggag  | agaagggaaa | gaacatcaag | 120 |
| attatcagca | aaatcgggaa | tcatgagggg | gttcggagggt | ttgatgaaat | cctggaggcc | 180 |

```
<210> 946
<211> 335
<212> DNA
<213> Homo sapiens
```

```
<210> 947
<211> 384
<212> DNA
<213> Homo sapiens
```

```
<210> 948
<211> 173
<212> DNA
<213> Homo sapiens
```

```
<210> 949
<211> 211
<212> DNA
<213> Homo sapiens
```

<400> 949  
ccatccacgt tgnnaaacag aataaaatgg aaattcacct tgatcatctac ccgacattgg 60



```
<210> 950
<211> 382
<212> DNA
<213> Homo sapiens
```

```
<210> 951
<211> 473
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 421, 456  
<223> n = A,T,C or G
```

```
<210> 952
<211> 312
<212> DNA
<213> Homo sapiens
```

|       |     |
|-------|-----|
| <210> | 953 |
| <211> | 397 |
| <212> | DNA |

| <400> 953  |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| cgcgccact  | gccgaccctc | ttggtttctg | aaaccaacct | tttttctctgc | tctcctcttt | 60  |
| aagagcaaac | cccaacatgt | ataaggtcac | agcaagtgg  | agccaggaaa  | agctgtggga | 120 |
| ccctcatctt | gagtcacatc | catatggcat | ggagaaagaa | aacctctctg  | ccagaaggaa | 180 |
| ctgaactctg | gaagtcttaa | ggaaggtcac | catgatcagc | agataggaaa  | gcattgccaa | 240 |
| gggctgtccc | tcaagagctt | agttttctta | gggagaccag | aaagacatca  | gactctgact | 300 |
| gccctgtttt | gctcaagttc | tgaaatgagt | ggcatgatga | agagctgggtg | gagctgaggg | 360 |
| aaagagtcaa | ccatgtgggg | tggggtagt  | aggaagg    |             |            | 397 |

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| <400>      | 954        |             |            |            |            |     |
| cctttgtacc | gggccagcaa | ctggaagggc  | acagtgtgga | attccagggc | ctgcagagtc | 60  |
| ttcttctgga | acagggcctc | gtggctccag  | tacagggaca | ggttgaactg | cagctcaaag | 120 |
| agctcctcag | ggagcatcat | ggggaagcgg  | atcttctcca | ccaagccctc | cacctctca  | 180 |
| tgggaggcac | gctcccccca | gctccagggtg | tccacggcct | tcagtagggc | cagctcgctg | 240 |
| ggcaccgcc  | ggtcgctcct | gggcagcagc  | agttggagca | ggtctgtggg | gacactgggc | 300 |
| cagg       |            |             |            |            |            | 304 |

```
<400> 955
ctgtttcaac tccctgccaa gaaaaatgta gatgcaattc tggaggagta tgcaaattgc 60
aagaaatcgc agggaaatgt tgataataag gaatatgcgg tcaatgaagt tgtggcagga 120
ataaaaagaat atttcaatgt gatgttgggc actcag 156
```

|             |             |            |             |             |             |     |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| <400>       | 956         |            |             |             |             |     |
| ctttcatctg  | accatccata  | tccaatgttc | tcattttaaac | attaccacgc  | atcattgttt  | 60  |
| ataaccagaa  | actctggtcc  | ttctgtctgg | tggcacttag  | agtcttttgt  | gccataatgc  | 120 |
| agcagtatgg  | agggaggatt  | ttatggagaa | atggggatag  | tcttcacgac  | cacaaataaa  | 180 |
| taaaggaaaa  | ctaagctgca  | ttgtgggttc | tgaaaaggtt  | attataacttc | ttaacaattc  | 240 |
| tttttttcag  | ggacttttct  | agctgtatga | ctgttacttg  | accttctttg  | aaaagcattc  | 300 |
| ccaaaatgct  | ctatttttaga | tagattaaca | ttaaccaaca  | taattttttt  | tagatcgagt  | 360 |
| cagcataaat  | ttctaagtca  | gcctctagtc | gtggttcac   | tctttcacct  | gcatttttatt | 420 |
| tgggtgtttgt | ctgaagaaaag | gaaagaggaa | agcaaatacg  | aattgtacta  | tttgtaccaa  | 480 |
| atctttggga  | ttcattggca  | aataatttca | gtgtggtgta  | ttattaaata  | gaaaaaaaaa  | 540 |
| att         |             |            |             |             |             | 543 |

|       |     |
|-------|-----|
| <210> | 957 |
| <211> | 528 |
| <212> | DNA |

<400> 957

<210> 958

<212> DNA

<400> 958

<210> 959

<211> 158

<212> DNA

<400> 959

<210> 960

<211> 235

<212> DNA

<400> 960

<210> 961

<211> 375

<212> DNA

<213> Homo sapiens

```
<210> 962
<211> 409
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 14, 26, 73, 74, 81, 103
<223> n = A,T,C or G
```

```
<210> 963
<211> 163
<212> DNA
<213> Homo sapiens
```

```
<210> 964
<211> 344
<212> DNA
<213> Homo sapiens
```

|       |     |
|-------|-----|
| <210> | 965 |
| <211> | 461 |
| <212> | DNA |

<400> 965

<210> 966

$\langle 211 \rangle$  246

<212> DNA

<213> Homo sapiens

<400> 966

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| cctttcacag  | acactaccat  | tgagtggggt  | gatgcagggt | gcagccttca | gtccccgagt | 60  |
| actgggttct  | gataaaattc  | cacagaatcc  | agcatcactg | ggctcagacg | gcatccactg | 120 |
| tagtaaaacta | tttgtaaattg | gggacatatc  | ttcccagcac | cagtaggaca | cattgatctt | 180 |
| ccgaaggccg  | acccatgggg  | ttaagggtgag | cttgacatg  | ctctgagatg | actgcattat | 240 |
| ctcgaq      |             |             |            |            |            | 246 |

<210> 967

<211> 244

<212> DNA

<213> Homo sapiens

<400> 967

|            |            |            |            |             |            |     |
|------------|------------|------------|------------|-------------|------------|-----|
| ctggagcatt | ggcagggaca | gtcagaaagg | agacaagtga | aaacgggtcag | atggacacag | 60  |
| cgcgaggata | aaagacagag | ggagagagac | catcggaac  | aatcagaggg  | gccgagacga | 120 |
| tcagaaaagg | gtcagcccg  | gacaggctga | gccagagttt | ctagaagcag  | tttccaattc | 180 |
| aacggctcgc | tttgagggcc | aacgtgtcct | aggccgaggc | tgcagaagcg  | ctcacacact | 240 |
| cacg       |            |            |            |             |            | 244 |

<210> 968

<211> 436

<212> DNA

<213> Homo sapiens

<400> 968

|             |            |             |             |            |            |     |
|-------------|------------|-------------|-------------|------------|------------|-----|
| ccaaagctctt | taccctattt | aaccocctgt  | atattttctga | ctgctcactg | ttcatattat | 60  |
| aggggaccag  | atttgaata  | tagaattctc  | cataacatga  | atgaaattaa | tgctgtccaa | 120 |
| gccagcatgg  | tggcttcata | ttaagtagta  | acagaagtct  | gaacaattgg | ataaatttga | 180 |
| cttccaagac  | agctaaactt | ttcaactgca  | attttaaaaa  | ctacactaca | ctgttatagt | 240 |
| taatctgaca  | aaaatgtcct | caaagagtac  | tttattttat  | ttaaagcatc | tgtttaattc | 300 |
| aacctttaat  | aattttgcaa | agaagggtac  | gtgtgtattt  | taatatagcc | tgacctgaat | 360 |
| ttatatgttt  | ttagctttag | tattttaactt | tttghtaaca  | ataaaccttt | tttaaaacaa | 420 |
| gtttaaaaaa  | gaaaaa     |             |             |            |            | 436 |

<210> 969

<211> 383

<212> DNA

<213> Homo sapiens

<400> 969

```
ctggctccct tgtctccagg gctttggagg atcagggtag ggagggctct gtctctaagc 60
cagggtgtcag gatcagaatc atgggtagaa ggtgccattc agtcacagc cgcaccaga 120
atccttttga gccctccttc tttatttttt tcccattgca ttctgggagt ccacatctgg 180
ctttctcagc cactgttcat caccaggggt tttaggagga aggcttggt cctgtcttcc 240
cagaccacc atgcctggag aggtcaggat ggaactacct cattcggcga attagcccca 300
aattgaacgc tgaatcgtgt cccatgagat caggcgccat ctgtaaagtc tcctctggaa 360
atgccaatcc atccttcccc cag 383
```

<210> 970

<211> 543

<212> DNA

<213> Homo sapiens

<400> 970

```
ctgtagcttt tgtgggactt ccaactgctca ggcgtcaggc tcaggtagct gctggccgcg 60
tacttgttgt tgctttgttt ggaggggtgt gtggtctcca ctccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tggttgcttg aagctcctca gaggaggcg ggaacagagt gaccgagggg 240
gcagccttgg gctgacctag gacggctcagc ctggctcctc cgccgaacac cgaagtgcta 300
ctgtttgtat atgagctgca gtaataatca gcctcgtcct cagcctggag cccagagatg 360
gtcagggagg ccgtgttgcc agacttgagg ccagagaagc gattagaaac ccctgagggc 420
cgatcagtga catcataaat catgagtttg ggggctttgc ctgggtgctg ttggtaccag 480
gagacatagt tataaaaaacc aacgtcactg ctggttccag tgcaggagat ggtgatcgac 540
tgt 543
```

<210> 971

<211> 416

<212> DNA

<213> Homo sapiens

<400> 971

```
ccagactgac ttcaaaaaat taatgtgtat ccaggacat tttaaaaacc tgtacacagt 60
gtttatttgt gtttaggaagc aatttcccaa tgtacctata agaaatgtgc atcaagccag 120
cctgaccaac atggtgaaac cccatctgta ctaaacataa aaaaattagc ctggcatggt 180
ggtgtacgcc tgtaatcca gtgacttggg aggctgaggc aggagaatcg cttgaacccg 240
ggaggcgagg gttgcagtga gctaagatcg caccactgta ctccagcctg ggcaacagcg 300
agactccatc tcaaaaaaaa aggaaatgtg tatcaagaac atgattatcc aggggtattt 360
tctaattcag atcatcaaac tgattatata gaagagttgg ctttaaaatg tttgca 416
```

<210> 972

<211> 242

<212> DNA

<213> Homo sapiens

<400> 972

```
ccaaaaatcc caaaacatca ttttcaatca gtagagaagt gcttaggggt gaaaattgat 60
ttcatttgc actgaatttg gtaaactcct ggtaactttt atcaagatga agacatttta 120
ccctacctac tctagaaata tacaacaatg ttatatatta cactccttgg aaacatttga 180
ggaaaaaaat gcaatttgca cttcactttg ttggaatatc ccatagcact caataaactc 240
ag 242
```

<210> 973  
 <211> 347  
 <212> DNA  
 <213> Homo sapiens

<400> 973  
 cctgcagggg atggaacctt ccagaagtgg gcggctgtgg tggcgccttc tggagaggag 60  
 cagagataca cctgccatgt gcagcatgag ggtctgcca agccccctcac cctgagatgg 120  
 gagctgtctt cccagcccac catccccatc gtgggcatca ttgctggcct ggttctcctt 180  
 ggagctgtga tcaactggagc tgttggtcgt gccgtgatgt ggaggaggaa gagctcagga 240  
 cattttcttc ccacagatag aaaaggagg agttacactc aggctgcaag cagtgcagct 300  
 gcccagggtt ctgatgtgtc tctcacagct tgtaaagtgt gagacag 347

<210> 974  
 <211> 571  
 <212> DNA  
 <213> Homo sapiens

<400> 974  
 gaaagagcga gatgcgagaa cacttttggc taaaaatctc cttacaaaag tcaactcagga 60  
 tgaattgaaa gaagtgtttg aagatgctgc ggagatcaga ttagtcagca aggatgggaa 120  
 aagtaaaggg attgcttata ttgaatttaa gacagaagct gatgcagaga aaacctttga 180  
 agaaaagcag ggaacagaga tcgatgggag atctatttcc ctgtactata ctggagagaa 240  
 aggtcaaaaat caagactata gaggtggaaa gaatagcact tggagtgggtg aatcaaaaaac 300  
 tctggtttta agcaacctct cctacagtgc aacagaagaa actcttcagg aagtatttga 360  
 gaaagcaact tttatcaaaag taccacagaa ccaaaatggc aaatctaaag ggtatgcatt 420  
 tatagagttt gcttcattcg aagacgctaa agaagcttta aattcctgta ataaaaggga 480  
 aattgagggc agagcaatca ggctggagtt gcaaggaccc aggggatcac ctaatgccag 540  
 aagccagcca tccaaaactc tgtttgtcaa a 571

<210> 975  
 <211> 221  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 15  
 <223> n = A,T,C or G

<400> 975  
 ctggaggtgc ctcanaaggt gcattctgct tctgcaggg gcttgaaaca ccaaggcact 60  
 ccagggatcc tggagtcaaa gcagcagccc cggttgttgc actccttggg ggtgacatgg 120  
 gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180  
 acgtactcct cagcagagct ggaggacagc aaggccagga c 221

<210> 976  
 <211> 316  
 <212> DNA  
 <213> Homo sapiens

<400> 976  
 ccatcagatt gtcacagact tttataaccc tttgatccct accaacgtta agtatgagtt 60  
 tggccctgcc atcttcattg gctgggcagg gtctgcccta gtcaccttgg gaggtgcact 120

gctctcctgt tcctgtcctg ggaatgagag caaggctggg taccgtgcac cccgctctta 180  
 ccctaagtcc aactcttcca aggagtatgt gtgacctggg atctccttgc cccagcctga 240  
 caggctatgg gagtgtctag atgcctgaaa gggcctgggg ctgagctcag cctgtgggca 300  
 ggggtgccgga caaagg 316

<210> 977  
 <211> 335  
 <212> DNA  
 <213> Homo sapiens

<400> 977  
 cctgtttgtc tgtacagcaa tgcagatgcg caggcccatc ctggtggagg acccagatgc 60  
 agggagcaaa tattcggggt gtgttgctaa gactcgcagg aactactgct agtgatacta 120  
 ggcttgctgc aggaggatgt cacgctgaga aaggagatg actaggagca gaaaaagtac 180  
 tctcactgtt ccagcttcca gcccaatcct agcagaatga atgcatttta aaatcagtc 240  
 acattcacat gtgctgagaa ggttgtagt ggtccctcat ctgggcaaag cagacccaag 300  
 atggtgctaa gtgcagagtg cagagcattc ttgtg 335

<210> 978  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 978  
 cctaacaccc aagctcttcc ttgcagaaga gctgagatgc taaggagacc atctggagtg 60  
 tcataataag ccottgggat ttgctgagct cccacatggc tttcttcaac cacctggccc 120  
 actttcttca accacattcc actttggaat gcgtgtcttt aaggcaccaa gtgatcttaa 180  
 gaatgggctc tgtttttgaa ttcagcaatc caagttccta tctatctcgg tgggacctcc 240  
 aaaaaaaaaa aaaaggattg gcttggcttc taatgtaagg 280

<210> 979  
 <211> 318  
 <212> DNA  
 <213> Homo sapiens

<400> 979  
 ctgtccagat gacagtaaga ttccactgtc tgtaatcctc atggtgccag gtctcctggg 60  
 gcatctaggg caatgatgct actgcagttt atgcagttac acagtcaagt ctgtgccaaa 120  
 ggaggtccca tccggcggcc aggtttctgt tcagtctggg gagcaatgcc aactggctgc 180  
 ccccatagcc tggcatgagc tgatggccca gtgcaatccc aaagcaaaga agggcagaac 240  
 tgggccaaga agctgtggta atttgctctc cctgcctccg acagcgtcgt cctctccttt 300  
 tgcagcccca cacgcagg 318

<210> 980  
 <211> 568  
 <212> DNA  
 <213> Homo sapiens

<400> 980  
 ccagcactgg ctcccttgatg gttttcctag gacattagga caagccgaag ccctggacaa 60  
 aatctgtgaa gtggatctag tgatcagttt gaatattcca tttgaaacac ttaaagatcg 120  
 tctcagccgc cgttgattc accctcctag cggaagggtg tataacctgg acttcaatcc 180  
 acctcatgta catggtattg atgacgtcac tgggtgaaccg ttagtccagc aggaggatga 240  
 taaacccgaa gcagttgctg ccaggctaag acagtacaaa gacgtggcaa agccagtc 300



tgaattatac aagagccgag gagtgtcca ccaattttcc ggaacggaga cgaacaaaat 360  
 ctggccctac gtttacacac ttttctcaaa caagatcaca cctattcagt ccaaagaagc 420  
 atattgaccc tgcccaatgg gagaaccagg aagatgtggc cattcattca atagtgtgtg 480  
 tagtatttgt gctgtgtcca aattagaagc taactgaggt agcttgcagc atctcttcta 540  
 gttgaaatgg tgaactgata ggaaaaca 568

<210> 981  
 <211> 550  
 <212> DNA  
 <213> Homo sapiens

<400> 981  
 ccattccccct ttagaacgta tcttaatgtg aacataaatt gttcttcatg atgcttaaaa 60  
 gcttacatat aatttttcatt cttagaaaaa cgccacattt tggatcctgg atttttctga 120  
 atatcatgat tgaaaaaaac aaaacaaaaa atgaacccaa atcaaaagtg ggttaaactt 180  
 atattgagaaa gatttttcaa ccagatgggc attcaaaaaa gttggagctg taagtgcggg 240  
 cgactgagga cacaggggta attcctcgct gctgggtgaa ggctagagaa catcttcaaa 300  
 agagggtagc aagacgtgct cctaggggag gctcagtggt gtctcgtctg cccaagcatt 360  
 ttcagtcttg cttgggtcaat gacatcgagt aagtttttgg catccacagc cagggcggtg 420  
 gcagcagtcg gcatttgctt tttgtactct tgctggaggc tggatcatgac atactgctgg 480  
 gccagtttca tcttgttgat gagctcaccg aggtcagagt tcaatagctt ctgtgccatc 540  
 tcaatctctc 550

<210> 982  
 <211> 524  
 <212> DNA  
 <213> Homo sapiens

<400> 982  
 ccaaggctcag aggctgatgc aacaggccct cttctcccca gggccaggct cctgtccagc 60  
 ctgggcactg ccagagtgga tggcattggc ccggatgctg ttctgtctct gcttggacac 120  
 cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180  
 ggctgaggtc tccaggaaga gcagtcattt gttttcagcg aacattcggg cctcctcagt 240  
 gggcacttcc cgggcctggc tgaggctact tttgttaccg acgagcatga cgacgatcgt 300  
 ggcttcagca tggatcatga gctccttcag ccacgcgtcc accacagcat aggtctgggtg 360  
 cttgggttagg tcaaacacca ggagggcccc cactgcacca cgatagtacc cttgaagaca 420  
 aagttataat cttcctcagt tccattcccc atcttggctc cgcatggagg gtgcagggtg 480  
 cttcggggac agaggcgaca aatctgtgtg ttggctcaat gcc 524

<210> 983  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<400> 983  
 ctttcgtgcc ctaacagcca gtcccctgtt aaagtggaag agacctgtgg ctgccgctgg 60  
 acctgcccct gtgtgtgcac aggcagctcc actcggcaca tcgtgacctt tgatgggcag 120  
 aatttcaagc tgactggcag 140

<210> 984  
 <211> 358  
 <212> DNA  
 <213> Homo sapiens

1007442001

|             |             |            |            |            |            |     |
|-------------|-------------|------------|------------|------------|------------|-----|
| tggagcggcc  | gcccggcagg  | tccaacgagt | cacaacagtg | caataggtag | aggattaaaa | 60  |
| actgcatcaa  | acagggtgctg | aaaataaata | ctacctagga | gaaggaggtg | agagccctcg | 120 |
| tgtggggttt  | gttttcgacc  | ccttgagtgt | gtgtggggtt | tgtattccga | gccacgagcc | 180 |
| tggcctgtct  | cgcggtgctg  | ttaactctga | cagagtgcgc | ctgcagcacg | ttgcctccag | 240 |
| ggcccagcct  | cccagaagcc  | tcagagcatc | agagcatccg | tcccatcgga | tggaccagaa | 300 |
| acaagaaaaat | ggggtggggt  | gaatcacagc | tatcattcaa | aggaaaggaa | tttttttc   | 358 |

<213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgaccccc  | tttgtccaca | gctaagatgg | cagcagaatg | ctatgtcact | atatacagaa | 60  |
| acaagacaac | ctgaagctaa | atggatgcc  | cctgcagagt | caacagggcc | agcctcacag | 120 |
| tcgacgcct  | gagctacagc | ctctccaaa  | aggcatcttc | cccacagcct | caacgccgag | 180 |
| caaggagcat | caagggttg  | tctcggttgt | tttgttcttt | ttacaaacta | tagatatata | 240 |
| cagttgaaaa | ctcaggattt | ctagccaata | accatagtta | ccaccacctt | acaaataaaa | 300 |
| agaaaatgcc | agaaacatct | ttaaatgcct | tgtcacacca | acagcaaagt | gcacagagtg | 360 |
| aggagaacac | gagagtgcct | tttcatttta | aaaatgtttg | gaaatatgta | caactttgat | 420 |
| acagtttcag | ggtgctccag | acacccatgg |            |            |            | 450 |

<213> Homo sapiens

|            |            |             |            |            |             |     |
|------------|------------|-------------|------------|------------|-------------|-----|
| cctctgcga  | gcagttcttg | aagcttcttt  | ttcattcctg | ctactctacc | tgtattttctc | 60  |
| agcttgacca | ctgagtggtc | aaaatacatt  | tctggggcac | ctcagggaac | ccatgcatct  | 120 |
| gcctggcatt | taggcagcag | agccoctgac  | cgtccccac  | agggctctgc | ctcacgtcct  | 180 |
| catctcattt | ggctgtgtaa | agaaatggga  | aaagggaaaa | ggagagagca | attgaggcag  | 240 |
| ttgaccatat | ccagttttat | ttattttattt | ttaatttggt | tttttctcca | agtccaccag  | 300 |
| tctctgaaat | tagaacagta | ggcgggtatga | gataatcagg |            |             | 340 |

<213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| cgaatgacccg | gagcaggccc | tctttccatc | ccgtgtcgga | tgagctggtc | aactatgtca | 60  |
| acaaacggaa  | taccacgtgg | caggccgggc | acaacttcta | caacgtggac | atgagctact | 120 |
| tgaagaggct  | atgtgttacc | ttcctgggtg | ggcccaagcc | acccagaga  | gttatgttta | 180 |
| ccgaggacct  | gaagctgcct | gcaagcttcg | atgcacggga | acaatgg    |            | 227 |

<213> Homo sapiens

cctcttttta ccagctccga ggtgattttc atattgaatt gcaaattcga agaagcagct 60



<400> 992  
 ctgctgcttg tgaaattcat gtgtggtact aagtacctta catgaattat ttcattttaac 60  
 cctcccaaca gtctcctttg tacgtgctgn nctctctgcc tggaaacact gtttcccacc 120  
 cccaaccccc aattcttctg tttatttttc ttgagacaga gtctcactgt gtagcccaga 180  
 ctggagtgcg gtggcgcgat ctcggtcac tccaatctcc gcctcccggtg tccctgttca 240  
 agcagttctc ctgcctcagc ctctgagta gctgggatta caggcacacg ccaccatgtc 300  
 cagctaattt ctgtattttt agtagagatg gggtttcacg atgttggcta ggatgggtctc 360  
 gatctctggt cagagtcctt tctgtaaata tccttggtta agaagcaatt ttagactgta 420  
 gctgttgcaa atgctttaag gaagaagcaa aacaactgtc agtcttctg aaatgaagaa 480  
 actacaccag ggctgctata tcagagcaac cccaaccagc actncaatca tgatg 535

<210> 993  
 <211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 993  
 ctgctgctct cccctcccag tctctactca ctgggatgag gttaggtcat gaggacacca 60  
 aaaacctaaa aataaaca aaagccaaaca agccttagct tttcttaaag gctgaaatgc 120  
 ctggaagtgt cccctttatt ataaaataac tttgtcata tttcttatac atgtttcttg 180  
 taagaaattc agaaactaca gacaaagaga gtggaatta cccactgtca gg 232

<210> 994  
 <211> 203  
 <212> DNA  
 <213> Homo sapiens

<400> 994  
 ccagcagatc atccacgacg accaccctct gtcctggctc cagggcgtct ttctgaatct 60  
 ccagctcagc cttcccgtac tccagggaat aggaggccca cagagtgggg cctggcagct 120  
 tccccgctt tcggatgagc acgcagccca gtccaagctc ctgggccagg gaggggcca 180  
 agaggaagcc tcgggagtct agg 203

<210> 995  
 <211> 238  
 <212> DNA  
 <213> Homo sapiens

<400> 995  
 ccatgcctgc cccgcccact ctgtatatat gtaagttaaa cccgggcagg ggctgtggcc 60  
 gtctttgtac tctggtgatt tttaaaaatt gaatctttgt acttgcatg attgtataat 120  
 aattttgaga ccaggtctcg ctgtgttgct caggctggct ccaaactcct gagatcaagc 180  
 aatccgccca cctcagcctc ccaaagtgtc gagatcacag gogtgagcca ccaccagg 238

<210> 996  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<400> 996  
 ctgcagcctg ggactgaccg ggaggctctg accatttacc caccacaggt aggttgtgtt 60  
 ctgaacctca ggttcacagg tgaaggccac agcatccttg tcctccacgg ggttggagtt 120  
 gttgctggag atggagggct tgggcagctc cgggtatata tggaactgtc cggttgcttc 180  
 ttcattcaca agatctgact ttatgacttg tagggatatag aatcctgtgt cattctgggt 240

gacgttctgg atcagcaggg atgcattggg gtatatgtgc tctcgaccac tgtatgcggg 300  
 ccctggggta gcttgttgag ttcctattac atatcctaca attagactgt tgccatccac 360  
 tctttcgctt ttgtaccag 379

<210> 997  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<400> 997  
 ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60  
 agctttgggtg caattcccat cgaccagagt tgggccgacc agccttgga aggtcactga 120  
 aaaatcttca attggattat gttgacctct accttattca ttttccagt tctgtaaagg 180  
 ccgtggagaa gtgtaaagat gcaggattgg 210

<210> 998  
 <211> 207  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 61  
 <223> n = A,T,C or G

<400> 998  
 ggtggctgtg ctggggggcgc cccacaaccc tgctcccccg acgtccaccg tgatccacat 60  
 ncgcagcgag acctccgtgc cggaccatgt cgtctggtcc ctgttcaaca ccctcttcat 120  
 gaacccctgc tgctggggt tcatagcatt cgctactcc gtgaagtcta gggacaggaa 180  
 gatggttggc gacgtgaccg gggccca 207

<210> 999  
 <211> 315  
 <212> DNA  
 <213> Homo sapiens

<400> 999  
 ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60  
 atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120  
 tggcagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180  
 ggccagcaaa aatatcaagg gtcaaatatc gcacatttct gtttaggcca tctatggctt 240  
 tcatctcttc tgaagtcaac tgggaattcaa acacctgcac gttctgtctg atgcgctgct 300  
 cattgtagct cttgg 315

<210> 1000  
 <211> 186  
 <212> DNA  
 <213> Homo sapiens

<400> 1000  
 ctgttactca agaagatgta tttaatgctt gacaataaga gaaaggaagt agttcacaaa 60  
 ataataagagt tgctgaatgt cactgaactt acccagaatg ccctgattaa tgatgaacta 120  
 gtggagtggg agcggagaca gcagagcgcc tgtattgggg ggccgcccaa tgcttgcttg 180  
 gatcag 186

<210> 1001  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<400> 1001  
 ccacaaagcg gaaactcatc cactttttgcc tttttccgcc ccaggtcaaa aatgcgaatc 60  
 ttggcatcag ggacacctcg gcagaagcga gactttgggt acggcttggt cttacaatac 120  
 cggtaacaac gggcggggcg gcggcccatg gcgacaccag gatcttcagt ggc 173

<210> 1002  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 1002  
 ctgaatgcct gagcccagca gggagctgag gatcatgggg tactgggggg gcctgaagac 60  
 gtcgccgtgc accaacttcc acccagactc ctccatgggt tcttcaatgt catcctcctt 120  
 gttgtagtgt gcaatgtcct tccggagggt ccgaatgata atcatgctca ggatacctga 180  
 caggaagaag accacaacaa cggagttaat gatagaaaac cagtggatct ggacgtcact 240  
 catggtcagg taagtgtccc agcgagaggc ccatttgata tcactttcct ccagtgaggac 300  
 ag 302

<210> 1003  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1003  
 cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
 ttattttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120  
 ggctcactgc aacctctgcc tccctgggctg cagtgattct cctgcgttca agtaattctc 180  
 ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
 tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctgggtc cgaactcccg 300  
 acctcaagga tctctctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360  
 acgtctgg 368

<210> 1004  
 <211> 294  
 <212> DNA  
 <213> Homo sapiens

<400> 1004  
 ctgggaggat agcaccgggc atatttttga atggatgagg tctggcaccc tgagcagtc 60  
 agcgaggact tggctcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120  
 gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180  
 ttacagggtt gggcacagct cgtacacttg ccattctctg catatactgg ttagtgagggt 240  
 gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg 294

<210> 1005  
 <211> 414  
 <212> DNA  
 <213> Homo sapiens

<400> 1005  
 ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctt tcttgtaagt 60  
 gaagaaaaag gaatgcagca aagaagagtt cgacattgga gtccttagtt ccatcaggat 120  
 cccattcgca gccttttagca tcatgtagaa gcaaactgca cctatggctg agataggtgc 180  
 aatgacctac aagattttgt gttttctagc tgtccaggaa aagccatctt cagtcttgct 240  
 gacagtcaaa gagcaagtga aaccatttcc agcctaaact acataaaaagc agccgaacca 300  
 atgattaaag acctctaagg ctccataatc atcattaaat atgcccaaac tcattgtgac 360  
 tttttatttt atatacagga ttaaaatcaa cattaatatca tcttattttac atgg 414

<210> 1006  
 <211> 272  
 <212> DNA  
 <213> Homo sapiens

<400> 1006  
 cggagagcca cgggtggctcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60  
 ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120  
 ccagccaagg acaggggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180  
 cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240  
 gaagcagaat gcaccttctg aggcacctcc ag 272

<210> 1007  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14  
 <223> n = A,T,C or G

<400> 1007  
 cctgccttac tctnttccct ttccccaggg actcttggtt ttcagaagcc cctctggaat 60  
 gtcctacctg gcctaacccc ataccagcag tgcagacaag gaggcactcc tactatagtg 120  
 ggtccagccc atggagagac tcaacttctg cccaacacc tcttccccta gaccctgagg 180  
 gccaggacaa tgtcttagtg ccttccaact tggcagagtg aggcccatg agacagagag 240  
 aaagggggaa gagggaaata cctttatcca aataaatacc catccaaaat tatttgtgat 300  
 aggtgaaaaa tgg 313

<210> 1008  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<400> 1008  
 cctcaatgtc gtgctagagg ggccgaagaa ggccgtgaac gacgtgaatg gcctgaagca 60  
 atgtttggca gaattcaagc gggatctgga atgggttgaa aggctcgatg tgacactggg 120  
 tccggtaccg gagatcggtg gatctgaggc gccagcacct cagaacaagg accagaaaagc 180  
 tgttgatcca gaagacgact tccagcgaga gatgagtttc tatcgccaag cccaggccgc 240  
 agtgcttgca gtcttaccct gcctccatca gctcaaagtc cctaccaagc gaccactga 300  
 ttattttgcg gaaatgg 317

<210> 1009

<211> 456  
 <212> DNA  
 <213> Homo sapiens

<400> 1009  
 tttttttgta gggatatagaa aatacatTTTT taattttgat agagttcaca aatgacagca 60  
 ttgacatttc tttaaacaaa tacttctgtc aaggcacagc attaccatgt gtccccagat 120  
 gcccaagagg cagtgatttc atgtccccct gaggttttagc agagccacca atgtcaatag 180  
 ggtggctgac ggggcctaga tttgtacca gataagccaa tgagacatgc tgtcagattt 240  
 atggttacat aatcaagtat ttaaaaagat gcacaatagg taactgcaat gagcttggtc 300  
 tgcatttagc gatagttcct ttcaaacaaa gaagatagtt ttcagtatca agaaggatgc 360  
 ctatatgtat gtcttccatg gagcctttcc tacaatttgc tttcattaca cattaaaagg 420  
 agttcagctt tattgtgacc ttcttgagtc attcag 456

<210> 1010  
 <211> 196  
 <212> DNA  
 <213> Homo sapiens

<400> 1010  
 ctgggcatgg gctgaggaga ggtcttgctt gcccccttca actttccatc tcagaactat 60  
 aaactgctag gctgcaagga gagaagggt aagtgggggt cagacaggag agaagggcag 120  
 gaggcagtga gccccgatga cccaccaact ccaccaggcc ctgacaggga agccccctttg 180  
 gttagtatca ttttgg 196

<210> 1011  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

<400> 1011  
 ccttgoggct gctgcgaaag gccacggcgc tgcttgcccg ccggggccgag tactttgatg 60  
 gttcagagcc cgtgcagaac cgcgtgtaca agtcaactgaa ggtctgggtcc atgctcgccg 120  
 acctgaagga gagcctcggc accttccagt ccaccaaggc cgtgtacgac cgcacccctg 180  
 acctgcgtat cgcaacaccc cagatcgtca tcaactatgc catgttcctg gaggagcaca 240  
 agtacttcca ggagagcttc aaggcgtacg agcgcggcat ctgctgttc aagtggccca 300  
 acgtgtccga catctggagc acctacctga ccaaattcat tgcccgtat gggggccgca 360  
 agctggagcg ggcacgggac ctgtttgaac aggtcttgga cggctgcccc ccaaatatg 420  
 ccaagacctt gtacctgctg tatgcacag 449

<210> 1012  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 274, 275  
 <223> n = A,T,C or G

<400> 1012  
 ccaggaccac aacccacgc ttagctggt agcgcagggc aatcagggct ggggttcgct 60  
 tgtgctttt tgccaaggca caaaggactg ggtcctccaa gagcaccggg gagttcgggt 120  
 ccacccatgg ttcttctcgg tgggatccca gagcactata ggcaaccaga acaatgtctt 180



```

ttgacttgca gaaatccagc agttttctct ggttgaagta aggatgacat tccacctggt 240
tgcagacagg cttgtacttg agccctggct tgtnnaggat catctccag 289

```

```

<210> 1013
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 98, 99, 132, 133, 180
<223> n = A,T,C or G

```

```

<400> 1013
tctgtaaatg ctgcgttcct aatttagtaa aataaaagaa tagacactaa aatcatgttg 60
atctataatt acacctatgg gatcaataag catgtcanna ctgattaatg tctactgtaa 120
aaatttggtg gnnaaathtt catttgatat tagatataaa tatctgaata taaataattn 180
taatatacta gtcatgatgt gtgttgattt ttaaaaatta t 221

```

```

<210> 1014
<211> 512
<212> DNA
<213> Homo sapiens

```

```

<400> 1014
gggcccccca agcctctaca atgggctggt tgccggcctg cagcgccaaa tgagctttgc 60
ctctgtccgc atcggcctgt atgattctgt caaacagttc tacaccaagg gctctgagca 120
tgccagcatt gggagccgcc tcttagcagg cagcaccaca ggtgccctgg ctgtggctgt 180
ggcccagccc acggatgtgg taaaggctcg attccaagct caggcccggg ctggagggtg 240
tcggagatac caaagcaccc tcaatgccta caagaccatt gcccgagagg aagggttccg 300
gggcctctgg aaagggacct ctcccaatgt tgctcgtaat gccattgtca actgtgctga 360
gccggcgacc tatgacctca tcaaggatgc cctcctgaaa gccaacctca tgacagatga 420
cctcccttgc cacttcaact ctgccttttg ggcaggcttc tgcaccactg tcatcgccctc 480
ccctgtagac gtggtcaaga cgagatacat ga 512

```

```

<210> 1015
<211> 553
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 518
<223> n = A,T,C or G

```

```

<400> 1015
ctgggcagga agattatgat cggccgaggg cctctccta cccagatacc gatgttatac 60
tgatgtgttt ttccatcgac agccctgata gttcagaaaa catcccagaa aagtggacct 120
cagaagtcaa gcatttctgt cccgacgtgc ccatcatcct ggttgggaat aagaaggatc 180
ttcggaatga tgagcacaca aggcgggagc tagccaagat gaagcaggag ccggtgaaac 240
ctgaagaagg cagagatatg gcaaacagga ttggcgccct tgggtacatg gagtgtctag 300
caaagaccag agatggagtg agagagggtt ttgaaatggc tacgagagct gctctgcaag 360
ctagacgtgg gaagaaaaaa tctgggtgcc ttgtcttggt aaaccttgct gcaagcacag 420
cccttatgcg gttaattttg aagtgcgtgt tattaatctt agtgtatgat tactggcctt 480

```

tttcatttat ctataattta cctaagatta caaatcanga agtcattcttg ctaccagtat 540  
 ttagaagcca act 553

<210> 1016  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 1016  
 ccacttcaca tgatggcggg cctttaagag cacaaagaag tttaatatgg acaacaacag 60  
 gaaaaagcaa gaagaaaaca agtagggaaa gacagctaac ctggagagag agaatttctt 120  
 taacctttat gttcttcatt aaaaatctta tcttggaactg atttgaggga tttttagaaa 180  
 catggcctta ttttatataa gcattacctt cccaggaatc tttgttgtat attaatTTTT 240  
 gataaccatt tgattaaactt taaaattaag tatatgtgtg tatatatata tatgtatgtt 300  
 tatatacaca catgtatctg tatagtttta tatatacata tatacacata gacatacaga 360  
 gaaccactac tttgtaatag tgtacagttt gttttatatc tctttacttt ttttgttact 420  
 attttatctg t 431

<210> 1017  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 427, 434  
 <223> n = A,T,C or G

<400> 1017  
 ctggaagaac aaggcgaagt tctgggtggct gtctgcgatg aatgtgccct tggctttggc 60  
 tgggtatgtc acccggttag ttttgggtgc aatgctctga tccttatcca cgggtgaaag 120  
 atcaaacatt gtgatgcaa cttcagtggg gatcttgact ctgagctcta cggtatattgc 180  
 aatataccgg ttgtcacctt caacttcgac aaggaagtca taataaccac tggaaaattt 240  
 gacgttcatg aaatttagtt caaaaacatc ccctacaggg gtgaaggatg tcttctggag 300  
 gacagtggct ctggaagcaa cagatttagc atgttctagt ttaacagtgg cctgagtcag 360  
 aggtcgagac agaacattgg tgacttgcaa ccgcaagata gcctgttcat gagtgtcggg 420  
 agcaganccc tcangcaca ccacaactgg cacgtggtag cgattatgcg agagcacagg 480  
 cagacctcgg 490

<210> 1018  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<400> 1018  
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 tcctaattgca agataaggctc atggggccta aggccatggg gcctgaggca cccctagacc 120  
 ctgagccttc agcatttaag ggagggtgtc cccccattct cgataggcca tggtagacag 180  
 atgggtctag ccgaggtgct ataactgctt ggaccactgt tgcagtocaa cctagtactg 240  
 aactatatg gtttgaaacc cgggtgtggac aaagtagcca atgggctgaa cttagagcag 300  
 tgtggatggt gatcaccaag gaggtgacac tgatggtaat ctgtatcaat agctgggtgg 360  
 tctaccaagg cttaactttg tggttaacta cctggaaaat acagaagttg ctagtcggcc 420  
 accaaccat ttgggggtcaa gccacgtggc aagacctctg ggaaatgggt catcagaaac 480  
 agtaaccgt ttatcatgtg tca 503

<210> 1019  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 1019  
 cctgtgtatg gagtagaggc ggggtgcacgg gtactgttcc tcacggcagt caagaggccc 60  
 aggetctgtg ggotccagct ctgcatttcc cggttctggg gttggggctg ggatgacttc 120  
 ctgttggact tgctgctggg actggaactg gaactgttcc tcggagggcc gaggagtcac 180  
 ctcttgataa tcatagtagt ctgggttgtc gatctggtcg ctatagtggg tgtactggac 240  
 gtggtcaggg aacggcggca gcgggtccag gtcatactgg ccctgagcca gcaagcctgc 300  
 aggcaggaat agcaggaaga ggtaggcagc tctcatggca acaaagag 348

<210> 1020  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<400> 1020  
 ccacacggcg accgagggac agatggggcc ctgcgtccca taggctgcct gaaggtgggt 60  
 agggcggcct gcggcatagt ggggtggctg tgggctccca gcctggcccc tgggaaccgt 120  
 gggagcacag ggacaagcac atggctatgg aatgcagggt gacccaagga caagcgagtt 180  
 gcggggatct ctactgtgac catgcagaat tgatcgcagt ctgctgcgcc accaccacct 240  
 catgttcccc aggggaacag 260

<210> 1021  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<400> 1021  
 ccttatgact ataacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60  
 tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120  
 ggagacgatg tcatcatcat cggggctctt aagggggaga gtgaccagc ctaccagcaa 180  
 taccaggatg ccgctaacia cctgagagaa gattacaaat ttcaccacac ttccagcaca 240  
 gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300  
 ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggtc caccaggac 360  
 tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg 407

<210> 1022  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<400> 1022  
 ccaccccaga gtgggagagg ctgggaggtt gggaggctgt ggagagaagt gagcaagggtg 60  
 ctcttgaacc tgtgctcatt ttgcaatatt atcagtaatt tgacttagag tttttacgaa 120  
 acctcttttg ttgtccttgc 140

<210> 1023  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

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<400> 1026
ctgtgagaga gatgctcaat atgccccagg ctatgacaaa gtcaaggaca tctcagaggt 60
ggtcacccct cggttccttt gtactggagg agtgagtccc tatgctgacc ccaatacttg 120
cagaggtgat tctggcggcc ccttgatagt tcacaagaga agtcgtttca ttcaagttgg 180
```

189

<211> 92

<213> Homo sapiens

```
ccagaccctc cttagtagag gatctcggac cacaaaacaa ggagtctcgt ggccttggat 60
tccagacccc taggatggta tcctctgac ag                                     92
```

<211> 438

<213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctgaaaagcc | atctttgcat | tgttctcat  | cgcctcctt  | gtcgcgcga  | gcgcctccg  | 60  |
| ccgcgcgcct | cctccgcgc  | cgcggaactc | ggcagcttta | tgcgcagagt | ccctgaactc | 120 |
| tcgctttctt | tttaatcccc | tgcatcgga  | caccggcgtg | ccccaccatg | tcagacgcag | 180 |
| ccgtagacac | cagctccgaa | atcaccacca | aggacttaaa | ggagaagaag | gaagtttgtg | 240 |
| aagaggcaga | aatggaaga  | gacgcccctg | ctaacgggaa | tgctaataag | gaaaatgggg | 300 |
| agcaggaggc | tgacaataag | gtagacgaag | aagaggaaga | aggtggggag | gaagaggagg | 360 |
| aggaagaaga | aggtgatggt | gaggaagagg | atggagatga | agatgaggaa | gctgagtcag | 420 |
| ctacgggcaa | gcgggcag   |            |            |            |            | 438 |

<211> 330

<213> Homo sapiens

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| ccagccgcgc  | gggagtgagg | gcagtcacgc | ccttgctaga | ggccaccccg | gacacccag  | 60  |
| ccttgctcgt  | gtcactgaac | gggaaccacg | ccgtgcgcct | gccgtgatg  | gagtgcgtgc | 120 |
| agatgactca  | ggatgtgcag | aaggcgatgg | acgagaggag | atttcaagat | gcggttcgac | 180 |
| tccgaggggag | gagctttgcg | ggcaacctga | acacctacaa | gcgacttgcc | atcaagctgc | 240 |
| cggatgatca  | gatcccaaag | accaatcgca | acgtagctgt | catcaacgtg | ggggcacccg | 300 |
| cggtgggat   | gaacgcggcc | gtacgctcag |            |            |            | 330 |

<211> 228

<213> Homo sapiens

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ctggagactc | tgggccagga | gaagctgaag | ctggaggcgg | agcttgccaa | catgcagggg | 60  |
| ctggtggagg | acttcaagaa | caagtatgag | gatgagatca | ataagcgtac | agagatggag | 120 |
| aacgaatttg | tcctcatcaa | gaaggatgtg | gatgaagctt | acatgaacaa | ggtagagctg | 180 |
| gagtctcgcc | tggaagggct | gaccgacgag | atcaacttcc | tcaggcag   |            | 228 |

<211> 294

<213> Homo sapiens

&lt;400&gt; 1031

```

ccacaaagcc attgtatgta gctttagctc agcgcaaaga agagcgccag gctcacctca 60
ctaaccagta tatgcagaga atggcaagtg tacgagctgt gcccaaccct gtaatcaacc 120
cctaccagcc agcacctcct tcagggttact tcatggcagc tatccacag actcagaacc 180
gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
ctcagggtgc cagacctcat ccattccaaa atatgcccg tgctatccgc ccag 294

```

&lt;210&gt; 1032

&lt;211&gt; 278

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1032

```

ggaggtatta cagacagcac tgcactttgg agttgggcag ctacatcgag gacctctttg 60
tgggtccacag tgacctctcc agcattgtga tcttgataa ctccccaggg gcttacagga 120
gcatccaga caatgccatc cccatcaaat cctggttcag tgacccacag gacacagccc 180
ttctcaacct gctcccaatg ctgggtgccc tcaggttcac cgctgatgtt cgttccgtgc 240
tgagccgaaa ccttcaccaa catcggtctt ggtgacgg 278

```

&lt;210&gt; 1033

&lt;211&gt; 155

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc feature

&lt;222&gt; 9, 17, 31, 74, 75

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1033

```

cgcgttcanc catgttnaaa ccgattgcat naacttcgaa accggcccgc ccgcccggcg 60
ctggagaggg gcanngggag aagcagagag tttatcattc atctgtacac atagacgttt 120
cttctttaaa taacaccacg ggcgggagcc ccac 155

```

&lt;210&gt; 1034

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1034

```

ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
ccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120
gacaagtaca tcgccctgga tgagtgggccc ggctgcttcg gcatcaagca gaaggatata 180
gacaaggatc ttgtgatcta aatccactcc ttccacagta ccgattctc tctttaacct 240
tccccttcgt gtttccccc aatgtttaaa tgtttgatg gtttggtgtt ctgcctggag 300
acaagtgct aacatagatt taagtgaata cattaacggg gtaaaaaatg aaaattctaa 360
ccaagacat gacattctta gctgtaactt aactattaag g 401

```

&lt;210&gt; 1035

&lt;211&gt; 333

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

1031 1032 1033 1034 1035  
 278 278 155 401 333  
 DNA DNA DNA DNA  
 Homo sapiens Homo sapiens Homo sapiens Homo sapiens Homo sapiens

<400> 1035  
 ctgagctggg ggttgaattt ctccaggcac tccctggaga gaggacccag tgacttgtcc 60  
 aagtttacac acgacactaa tctcccctgg ggaggaagcg ggaagccagc caggttgaac 120  
 tgtagcgagg cccccaggcc gccaggaatg gaccatgcag atcactgtca gtggagggaa 180  
 gctgctgact gtgattaggt gctgggggtct tagcgtccag cgcagcccgg gggcatcctg 240  
 gaggtcttgc tccttagggc atggtagtca ccgcgaagcc gggcaccgtc ccacagcatc 300  
 tcctagaagc agccggcaca ggaggggaagg tgg 333

<210> 1036  
 <211> 198  
 <212> DNA  
 <213> Homo sapiens

<400> 1036  
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tcttaattac 60  
 tagacctcag tactgaatca ggacctcact cagaaagact aaaggaaatg taatttatgt 120  
 acaaaatgta tattcgata tgtatcgatg ccttttagtt tttccaatga tttttacact 180  
 atattcctgc caccaagg 198

<210> 1037  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 1037  
 ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60  
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120  
 ctggttgctt atagtgtctt gggatcccac cgagaagaac catgggtgga cccgaactcc 180  
 ccggtgtctt tggaggaccc agtcctttgt gccttggcaa aaaagcacia gcgaacccca 240  
 gccctgattg ccctgcgcta ccagctacag cgtgggggtt tggtcctgg 289

<210> 1038  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1038  
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60  
 cttgaggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120  
 aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180  
 cgaggcagga gaattacttg aacgcaggag aatcactgca gcccaggagg cagaggttgc 240  
 agtgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300  
 gtaaataaat aaataataa aaagcgtctg agtagctgtg gcctcaccct gaagtcagcg 360  
 ggcccagg 368

<210> 1039  
 <211> 417  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 226, 227, 246, 259, 390, 391  
 <223> n = A,T,C or G

<400> 1039  
 ctgggcctat gctggtcatg aacggtcctg gaaaatgact ccttccttc agtatctgca 60  
 tcctcatgaa gtcattcatt ttggagatcg tgtcttcact tttcttggtg aagaaactgc 120  
 tggatggagt tgttggtggc atctgaggag tccgaagatg gctctcaggg aagggtgtgc 180  
 tggcctctga aggatttggg agctgactct gttcctgggg tagctnnatg ctcttggggg 240  
 cattgnttct cgggtttgnt tttttcttta tctggataaa actatgcatt tctgaaatca 300  
 gttttgacat ctggttcttt tttcctaagt cgaaagcaga aaagttggaa gcttatctcc 360  
 ttcttcacag ggggatattg tggacattgn nctgtcccca ctacatccat ttttct 417

<210> 1040  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 1040  
 ctgtccaatg gcaacaggac cctcactcca ttcaatgtca caagaaatga cgcaagagcc 60  
 tatgtatgtg gaatccagaa ctcatgtagt gcaaaccgca gtgaccaggt caccctggat 120  
 gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cctttcggga 180  
 gcgaacctca acctctcctg ccactcggcc tctaaccat cccgcagta ttcttggcgt 240  
 atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat caccgcaaat 300  
 aataacggga cctatgcctg ttttgtctct aacttggcta ctggccgcaa taattccata 360  
 gtcaagagca tcacagtctc tgcactctgga acttctcctg gtctctcag 409

<210> 1041  
 <211> 492  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 473  
 <223> n = A,T,C or G

<400> 1041  
 cctcggctcc acacctccgc tgtgaccaca gcctcaggtc aagctgtgct ggggccatcc 60  
 accttccttt gccatttaga agatggggct tggagcttgg caacacagaa attgacatca 120  
 gccttataaa accttggctg aacctaccga cctccaggag aatttcagcc aaaacaaaaa 180  
 agcaaataca cagagggacc ctggaaccag aatccctccc catgggaaag acgaaggcac 240  
 agagattcga gccaaagttc ccaacatggt ggtgtttgca gaaaagtccg gtcacgtcac 300  
 acacagcaca gaggcaagaa gcgaaggcag tggcattcac aggactactt tatattaaag 360  
 tttattacat ttggaaaatc tactgtacag ggaaaaaccc attggattaa gtagagtttt 420  
 gccaaaagca aaagactatc actctttgga aaatattcct gattccagcc canggccag 480  
 ggtggggcca ca 492

<210> 1042  
 <211> 125  
 <212> DNA  
 <213> Homo sapiens

<400> 1042  
 cctggctctg atccagtgc cctctcacc aaagaactcg gtttaaccag ggctctgtaa 60  
 gaccactccc acccagagac ttgtgtggcc tgggtgtggcc tgtgtgtcgg attccttct 120  
 gtcag 125



<210> 1043  
 <211> 459  
 <212> DNA  
 <213> Homo sapiens

<400> 1043  
 ccagcctgga gataaggggtg aaggtgggtgc ccccggaactt ccaggtatag ctggacctcg 60  
 tggtagccct ggtgagagag gtgaaactgg ccctccagga cctgctggtt tccctgggtgc 120  
 tcctggacag aatgggtgaac ctggtggtaa gggagaaaga ggggctccgg gtgagaaagg 180  
 tgaaggaggc cctcctggag ttgcaggacc ccctggaggt tctggacctg ctggtcctcc 240  
 tggcccccaa ggtgtcaaag gtgaacgtgg cagtcctggt ggacctgggt ctgctggctt 300  
 ccctggtgct cgtggtcttc ctggtcctcc tggtagtaat ggtaaccag gacccccagg 360  
 tcccagcggg tctccaggca aggatggggc cccaggtcct gcgggtaaca ctggtgctcc 420  
 tggcagccct ggagtgtctg gacaaaaagg tgatgctgg 459

<210> 1044  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1044  
 cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
 ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120  
 ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180  
 ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
 tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctggtct cgaactcctg 300  
 acctcaagga tcctcctgcc tcggcctcct aagtgctgg gattgcaggt gtgagccacc 360  
 acgtctgg 368

<210> 1045  
 <211> 315  
 <212> DNA  
 <213> Homo sapiens

<400> 1045  
 ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60  
 atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggcctcc 120  
 tggcagacct catgcaatgc cctccatggt aatattcatc agaaaatgga taattagggg 180  
 ggccagcaaa aatatcaagg gtcaaatac gcacatttct gtttaggcca tctatggctt 240  
 tcatctcctc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300  
 cattgtagct cttgg 315

<210> 1046  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<400> 1046  
 cctcgccctgg agggccccgg gcagcacagg gaggacgagc ttgtccagca gagggctctgg 60  
 cagagggtcc cgcagagggt tgggcagggg gtctgacatc cctggctcct gctctggctc 120  
 tggctgccgg gatttgacac gggccagggt catcacagat ccgtttgagt caatctggtt 180  
 ctggaagtag tcgatgacca gggggaagta gtcgtcaagc acttggttgc actggggcat 240  
 gagcagcttc aaggggagga cgttgcactc ctgctccagg aacttcctca ccgtgtcctg 300

gaaaatggcc tccttgg

317

<210> 1047

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 183, 271, 287, 292, 294, 343

<223> n = A,T,C or G

<400> 1047

```
gtacaagctt tttttttttt tttttttttt tttgtttaat gcttgaactt ttttttgag 60
agagaaattt agaaagacac aagggtacaca gagtaaaatg tttttctttt ttcaggacct 120
tgaactgaat cttgcactgc tttggtttct atctaggaag ctcagcgaca gcagagtctg 180
tanaggcggc cactgatttc acacaccccg gagagggact cacgggtagc acaacggccg 240
gttcggcaat agcagggtggc tcttgcttga naacctgagg ttctaanagc ananagtcca 300
tttcctgcaa aggagatagc aagggtcctgg ttgtcttccc canactgctt ctgggttgta 360
gcctcatcag ctctttcctg gagtgactca gcctgggcct gcagggccac ca 412
```

<210> 1048

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 267, 336, 344, 360, 395, 419, 420, 430, 441

<223> n = A,T,C or G

<400> 1048

```
taaaaaaagg aaaaagtttt attacgaaac tagtttgtat aaaacagggt tatacatatt 60
tttghtaagtt tgtaataaaa cagtaagaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgaa cagtatttaa taacatcatt aatacattaa caacatttct ataaagtaag 240
acacattggt gctgaagtac aactggnggc ctcttgatct cacctatgag gagagttctt 300
tacaaaacca catagggaaa attgcagttg taaggngaac tacncatcta aaatatgcan 360
aggtaatagc attacatggt aaagggtatca agggnatata cacattttta accatttgnn 420
acaaaacttn tataaaattt ntttctctct ctttctctct tatgcacaaa aaatat 476
```

<210> 1049

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1049

```
cctggctgag caggcagagc accctgggac cccagggcag aaggaccct gccctccagt 60
ccccaagacc caggcccgtc tccactcata cagccacct acatgtgacg tcagccctga 120
aaaggtaaca ggaaagttca gaacaaaaac aaaaccccaa aagtaaaaag gctacgtgta 180
gcagagtaat accggaaacg ttatatacac aggcgggtgat ggccccctcg gaagtgtccg 240
ggtcacttag ggggcactgc agaggtccct gtgg 274
```

<210> 1050

<211> 472  
 <212> DNA  
 <213> Homo sapiens

<400> 1050  
 ctgcagcctg ggactgaccg ggaggctctg attattttacc caccacaggt aggttgtgtt 60  
 ctgaatctca ggttcacagg ttaaggctac agcatcctca tcctccacgg ggttggagtt 120  
 gttgctggtg atgaaggggt tgggtggctc tgcatagact gtgatcgtcg tgactgtggt 180  
 cctattgagg ccagtgtctg agttatgggc ttggcacgta taggatccac tattattcac 240  
 agtgatgttg gggataaaga gctcttgggt ggattgctgg aaagtcccat tgacaaacca 300  
 agagtactgt gcagggtgggt tagaggctgc gtggcaggag aggttcagat tttcccctga 360  
 tctgtaagat gtgttttagag gggaaatggg gggggcatcc gggccataga ggacattcag 420  
 gatgactgaa tcaactgcgc tggcactcac tgggttctgg gtttcacatt tg 472

<210> 1051  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 1051  
 ccaccaaccg tggcatcacg cgaatccggg gcaccagcta ccagagccct cacggcatcc 60  
 ccatagacct gctggaccgg ctgcttatcg tctccaccac cccctacagc gagaaagaca 120  
 cgaagcagat cctccgcacg cgggtgcagg aagaagatgt ggagatgagt gaggacgcct 180  
 acacggtgct gacccgcacg gggctggaga cgtcactgcg ctacgccatc cagctcatca 240  
 cagaccctgc 249

<210> 1052  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 1052  
 ccaggaccac aacccccacg tgtagctggt agcgcagggc aatcagggct ggggttcgct 60  
 tgtgtctttt tgccaaggca caaaggactg ggtcctccaa gagcacgggg gagttcgggt 120  
 ccacccatcg tttgtctcgt tgagatccca gagcactata ggcaaccaga acaatatctt 180  
 tcgacttgca gaaatctagc aatttactcc ggttgaaata cggatgacat tctacctggt 240  
 tgcagacagg cttgtacttg agtcctggct tgttgaggat catctccag 289

<210> 1053  
 <211> 199  
 <212> DNA  
 <213> Homo sapiens

<400> 1053  
 ccacgactgc atgcccgcgc ccgccaggtg atacctccgc cggtgaccca ggggctctgc 60  
 gacacaagga gtctgcatgt ctaagtgcta gacatgctca gctttgtgga tacgcggact 120  
 ttgttgctgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180  
 gtaagaaagg gccagccg 199

<210> 1054  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

```

<400> 1054
tcgaccctgt gaagcaggag acagatgctg cattttcact gttgtttgtc ctctgttttt 60
gtagcatccc cggaacttc cccatcagcc aggggcttgt cccaccacc cttcacctgg 120
ctttccagtt ggctgagacg ctgcttcac ttcacgtggg tggcggtgta ctcagccagg 180
aggcgtgcaa acctgggtctg cagggcgctcc agggaggacc ccag 224

```

```

<210> 1055
<211> 390
<212> DNA
<213> Homo sapiens

```

```

<400> 1055
cctcttatta gggctctggt agcggcgggc gcgaccctt ggggtctgga cgcaacggcg 60
gcgggagcat gaacgcccct ccagccttcg agtcgttctt gctcttcgag ggcgagaaga 120
agatcaccat taacaaggac accaaggtag ccaatgcctg tttattcacc atcaacaaag 180
aagaccacac actgggaaac atcattaaat cacaactcct aaaagaccgc caagtgtat 240
ttgctggcta caaagtcccc cacccttgg agcacaagat catcatccga gtgcagacca 300
cgccggacta cagccccag gaagcctttg ccaacgcat caccgacctc atcagtgagc 360
tgtccctgct ggaggagcgc tttcgggtgg 390

```

```

<210> 1056
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21, 22, 230, 232, 377, 391
<223> n = A,T,C or G

```

```

<400> 1056
ccagcatcac cttttgggtcc nnacactcca gggctgccag gagcaccagt gttaccgcga 60
ggacctgggg gccatcctt gcctggagaa ccgctgggac ctgggggtcc tgggttacca 120
ttactaccag gaggaccagg aagaccacga gcaccaggga agccagcagc accaggtcca 180
ccaggactgc caggttcacc ttgacacct tggggaccag gaggaccagn angtccagaa 240
cctccagggg gtcccgcaac tccaggaggg cctccttcac ctttctcacc cggagcccct 300
ctttctcctt taccaccagg ttaccattc tgtccaggag caccaggga accagcaggt 360
cctggagggg cagtttnacc tctctcacca nggctaccac gaggtccagc tatacctgga 420
agtccggggg caccaccttc acccttacct 450

```

```

<210> 1057
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 1057
tgagcgggcg cccggcaggt cctcgccctgg agggccccgg gcagcacagg gaggacgagc 60
ttgtccagca gagggtctgg cagaggggtcc cgcagagggt tgggcagggg gtctgacatc 120
cctggctcct gctctggctc tggtgcggg gatttgacac ggcccagggt catacagatg 180
ccgtttgagt caatctgggt ctggaagtag tcgatgacca gggggaagta gtcgtcaagc 240
acttggttgc actggggcat gagcagcttc aaggggagga cgttgcactc ctgctccagg 300
aacttcctca tcgtgtcctg gaaaatggcc tccttgg 337

```

```

<210> 1058

```

<211> 237  
 <212> DNA  
 <213> Homo sapiens

<400> 1058  
 ctggggactg ggaatgctag catatggtat ctcaagttgg ctctcagaac taaacgggga 60  
 taagggccta gaatggaaga gggaaccagc cagaccctca gtccttcctg tcctggactg 120  
 ggagccacag atgtccctgt gatctgtcac tgccctgac tgggtcttca gccattaaag 180  
 ctcaagtgtca tcttcagtca ccaacggggg tcttggtgtc cttccaaacc cctttgg 237

<210> 1059  
 <211> 210  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 169, 170  
 <223> n = A,T,C or G

<400> 1059  
 agcccatccc cccggctccc tcctagtctg ccctgcgtcc tctgtccccg ggtttcagag 60  
 acaacttccc aaagcacaaa gcagtttttc cccctagggg tgggaggaag caaaagactc 120  
 tgtacctact ttgtatgtgt ataataattt gagatgtttt taattattnn gattgctgga 180  
 ataaagcatg tggaaatgac ccaaaaaaaaa 210

<210> 1060  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 1060  
 ctggccacag agccagcaa gtccttcctg ggagagaaga gttagggctg atactgaagg 60  
 tctctttcac atctgggcac acgtctgcct tcaggctgta agaatttcat ttgtcgattg 120  
 ttaaataaaa ccaggagaaa gcaatgcagg tctctgggaa tctcatccct tccataagga 180  
 aaatgctctg ccaattcaag ttctattcag tcaggaagac agaaggattt aaggcttcgg 240  
 tgacaattat aatcctctga gaaattattt ccccttaaag tcaagataag ataatagtgt 300  
 ttactgtact ttctcttgac tcttgaaatc cctgggtattg ggtgtaggca acttgcacct 360  
 gcaatgaagt ccgcaggaga ggaagggtctc tcctcccccg aaagctatcc caggtcacat 420  
 gcgtggcgaa tgcccactga acctcggctc tcatggaagc aggaaagaca ccgagattca 480  
 agccttctag taggttgagg acgctgtgct catggcatct tcggagattt tgggtactggc 540  
 aggggtggat gcttgcaaaa tact 564

<210> 1061  
 <211> 267  
 <212> DNA  
 <213> Homo sapiens

<400> 1061  
 cctatggagg tgcctatgat gtcattgagct ctaagcacct ttgtggtgat accaactatg 60  
 cctggcccac cgcagagatt gcggtcatgg gagcaaaggc cgctgtggag atcatcttca 120  
 aagggcata gaatgtggaa gctgctcagg cagagtacat cgagaagttt gccaacctt 180  
 tcctgcagc agtgcgaggg tttgtggatg acatcatcca accttcttcc acacgtgccc 240  
 gaatctgctg tgacctggat gtcttgg 267

<210> 1062  
 <211> 603  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 533, 592  
 <223> n = A,T,C or G

<400> 1062  
 ctggtcacatc tgtcatgtga agaccatctt cctacagagt ctaggctggc cgtcgttgaa 60  
 gtcctcacca gtactacacc acttttcctc accaaccacc atcctattct tgagttgcag 120  
 gatacacttg ctctctggaa gtgtgtcctt acccttctgc agagtgagga gcaagctgtt 180  
 agagatgcag ccacggaaac cgtgacaact gccatgtcac aagaaaatac ctgccagtca 240  
 acagagtttg ccttctgccca ggtggatgcc tccatcgctc tggccctggc cctggccgctc 300  
 ctgtgtgata tgctccagca gtgggaccag ttggcccttg gactgcccac cctgctggga 360  
 tggctgttgg gagagagtga tgacctcgtg gcctgtgtgg agagcatgca tcagggtggaa 420  
 gaagactacc tgtttgaaaa agcagaagtc aacttttggg ccgagaccct gatctttgtg 480  
 aaatacctct gcaagcacct cttctgtctc ctctcaaaag tccggctggc gtnccccaag 540  
 ccctgagatg ctctgtcacc ttcaaaggat ggtgtcagag cagtgccacc tnctgtctca 600  
 gtt 603

<210> 1063  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 1063  
 ccatcgaggga tcaactgagat gcagtggcgg tccccgtagc tggcccgagg catgccaccc 60  
 tggaagatgg tgaagggcaa cccctgccta gtggtcagcc ggaggattct ggtaatcgct 120  
 ttgcaaggaa agggaccgta aggcacgagg ctgcggaggg gctctggttg ctgggcttcg 180  
 ctggacacgg gccactggca gtagctgccg tcagagtgcac ag 222

<210> 1064  
 <211> 72  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 13, 14  
 <223> n = A,T,C or G

<400> 1064  
 gatgatcaat atnnactgga acacatgcat gcttttggaa tgtataatta cctgcactgt 60  
 gattcatggt at 72

<210> 1065  
 <211> 251  
 <212> DNA  
 <213> Homo sapiens

<400> 1065  
 gtggccgtga tggatagcga caccacaggc aagctgggct ttgaggaatt caagtacttg 60  
 tggaacaaca tcaaaagggtg gcaggccata tacaaacagt tcgacactga ccgatcaggg 120  
 accatttgca gtagtgaact cccagggtgcc tttgaggcag caggggttcca cctgaatgag 180  
 catctctata acatgatcat ccgacgctac tcagatgaaa gtgggaacat ggattttgac 240  
 aacttcatca g 251

<210> 1066  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 1066  
 ctggagatga tcctcaacaa gccagggtgc aagtacaagc ctgtctgcaa ccagggtggaa 60  
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120  
 ctggttgccct atagtgtctt gggatcccac cgagaagaac catgggtgga cccgaactcc 180  
 ccagtgtctt tggaggaccc agtcctttgt gccttggcaa aaaagcacia gcgaacccca 240  
 gccctgattg ccctgcgcta ccagctacag cgtgggggttg tggtcctgg 289

<210> 1067  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 1067  
 ctgtagttga ctgaagtcgc taaacaggac ggatttaagt agaggtgata tgtccagtc 60  
 ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcagg 120  
 caaagctctc catgttaata ttcattctgaa tatggataat tagggtggct agcaaaacta 180  
 tcaactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctccgca 240  
 gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300  
 g 301

<210> 1068  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<400> 1068  
 ccagcagttc ctctttgcct tatatttgtg gtacgcccgg ccagccttca agatggggtt 60  
 gtcaattcgg ccacctccag ccaccacacc aaccacagct ctgttggctg aggagataac 120  
 cttcttggag ccggaggggca gcttcacacg ggtcttcttg gtctcagggt tgtgggagat 180  
 aacggtggca tagttccctg atgcccgggc cagcttgcca cggctccag gcttctcctc 240  
 caggcagcac acgat 255

<210> 1069  
 <211> 77  
 <212> DNA  
 <213> Homo sapiens

<400> 1069  
 ctggacaggc tccagcacgg gcccaaacac gccagacct cggcaggcac cacctgggtc 60  
 tcccacccag aaagtgc 77

<210> 1070

<211> 163  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 12, 108, 109, 137, 147, 148  
 <223> n = A,T,C or G

<400> 1070  
 ctgctgggat gnotgccaaag tttttcagcc ataaggtagc gaaatctagc agaatccaga 60  
 ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagttnna ggtaacatac 120  
 gtaagaatgt ccaactgngtt ggaaacnca attatgatgc aat 163

<210> 1071  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 14  
 <223> n = A,T,C or G

<400> 1071  
 ctgaccggac cggncatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60  
 actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120  
 cggtctctcg gcatacgggc aaaaagagcc aaggaagccg cagaacagga tgttgaaaag 180  
 aaaaaataaa gccctcctgg ggacttggaa tcagtcggca gacaaaaaaa aaaaaaaaaa 240  
 aacaaa 246

<210> 1072  
 <211> 224  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 143  
 <223> n = A,T,C or G

<400> 1072  
 ctgccctgac agagcgctcc ttgatgggca tggactggaa aggatcccag gaatacaaga 60  
 aggcagaaaa aaaagtttgg aagatcttta aatctgacag tgaagtggct ggttacatcc 120  
 ggcaagcggg tgacttccat cangtaatta ttcgaggtgg aggacatatt ttaccctatg 180  
 accagcctct gagagctttt gacatgatta atcgattcat ttat 224

<210> 1073  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 1073  
 ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60

1070-1073



```

ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcaactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g                                                                 301

```

```

<210> 1074
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 41, 47, 56, 69, 78, 93
<223> n = A,T,C or G

```

```

<400> 1074
caagcttttt tttttttttt tttttttttt ttctgtcaaa nactttnttt tattantaca 60
tgggctggna ttgatggnaa gggacaaatg tanttggcaa ccatgggttag catcgggatgc 120
ccatcccaat gg                                                                 132

```

```

<210> 1075
<211> 301
<212> DNA
<213> Homo sapiens

```

```

<400> 1075
ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcaactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g                                                                 301

```

```

<210> 1076
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<400> 1076
ctgctgggat gaatgccaa gttttcagcc ataaggtagc gaaatctagc agaatccaga 60
ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagtttcca ggtaacatac 120
gtaagaatgt ccaactgggt ggaaaccaca attatgatgc aatcaggact gtacttgacg 180
atctgaggaa taatgaattt gaagacattt acattttctt gcaccagatt gagccgactc 240
tccccctctt gctgacggac tcttgcagtt actactacaa tcttagaatt ggcggtcaca 300
gaataatctt tatctgccac aatttttagt gtctgaagaa ataagctccc atgctgcaga 360
tccatcattt ctcttttaag cttatcttcc aaaacatcca caagagcaag ttcacagcc 420
agagactttc ccagaa                                                                 436

```

```

<210> 1077
<211> 256
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 1077

```

ctgaagatta ataggaaaca gtgaaaaagc aacgtcctgt gatcagtaac tttaaagaca 60
agcttggttc tctctttctg gcactactga cattcccacc attctagctt ccgaattctg 120
gaaaaagaga agatgattaa caaaaataga gaatgtagaa acttctgggt ttgtgcctac 180
aggattggca ccagaccctc agtgctcact tgctccatct acaaggcagc acccctccca 240
gaggcagcca gggagg                                     256

```

&lt;210&gt; 1078

&lt;211&gt; 202

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 8, 10, 26, 67, 71, 77, 84, 93, 127, 133, 144

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1078

```

ctgtgctncn caaccagatc catgtnaagt gccccgccc gagaaaggag ccagggggag 60
ctgactncag ncaacancca gtgnccggat gancaccaac atgtgagggg tgaaccttgg 120
cctccangac atntgcaccc cctnccacc tccacggacc tcggacctcc aggcggctca 180
gtgctgcttg cggcccagct aa                                     202

```

&lt;210&gt; 1079

&lt;211&gt; 170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1079

```

gcgcttctcg ggcaccgtca ggcttaagtc cactccccgc cctaagttct ctgtgtgtgt 60
cctgggggac cagcagcact gtgacgaggc taaggccgtg gatatcccc acatggacat 120
cgaggcgctg aaaaaactca acaagaataa aaaactggtc aagaagctgg 170

```

&lt;210&gt; 1080

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1080

```

cctgcggcaa agagatgctc ttattgagaa acatggctta gttataatcc ccgatggcac 60
tccaatggg gatgtcagtc atgaaccagt ggctggagcc atcactgttg tgtctcagga 120
agctgctcag gtcttgaggt cagcaggaga agggccatta gatgtaaggc tacgaaaact 180
tgctggagag aaggaagaac tactgtcaca gattagaaaa ctgaagcttc agttagagga 240
ggaacgacag aaatgctcca ggaatgatgg cacagtgggt gacctggcag gactgcagaa 300
tggtcagac ttgcagttca tcgaaatgca gagagatgcc aatagacaaa ttagcgaata 360
caaatttaag ctttcaaaag cagaacagga tataactacc ttggagcaaa gtattagccg 420
gcttgaggga caggttctga gatataaac tgctgctgag aatgctgagg aaagttgaag 480
atgaattgaa agca                                     494

```

&lt;210&gt; 1081

&lt;211&gt; 123

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

1077  
 1078  
 1079  
 1080  
 1081

&lt;400&gt; 1081

```

ctgctgctat taagttgcaa gctctacagc tagctacatg actgatggat cagtttgaga 60
tttgttccct tgtcaaaagt ttaactctga tagaagggtg gcctcacatt ctgatgtttg 120
gac                                                    123

```

&lt;210&gt; 1082

&lt;211&gt; 297

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1082

```

cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccgt 120
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

```

&lt;210&gt; 1083

&lt;211&gt; 452

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1083

```

ctggggccacg aggacaccac cagcttggat cggcctcgcc gtgtggaata cttttagat 60
aagcaactcc aagtaaaggc tgtcacctgt gggcctgga acacctacgt gtatgctgtg 120
gagaaaggga agagctgaca tgtgtacgta tatgtatatg caacacctgt gagaccccca 180
ttcagggtcaa ggaaaacctat tgctgcacc ccaaggggcc catatttgcc cctccccatc 240
acagtccctgc ccttcacctt caagcacggc cctaaacttg tctgcacttt agaaacacct 300
ggagagcatt gaaaactctg ctgcctaagg tcagcatcaa tcaaaacaat gaaatcaatg 360
aaacaatgaa accagagctt ctagggtgtg ggccctggata gtggtagatt caaagctcca 420
cccacctcat cccaggtaca tttgatgtgc ag                                                    452

```

&lt;210&gt; 1084

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1084

```

ctgtagttag ctgaagtcgc taaacaggac ggatttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcggg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggc agcaaaacta 180
tactgtttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g                                                    301

```

&lt;210&gt; 1085

&lt;211&gt; 369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1085

```

ctgttttccca tggggccacca ggcggtcag gacagcaaac gtctcatccc ctctcaggat 60
gtacttctcc atgtcctgct cgatccactg gtacatgagg cccttcacat gcacgtctcg 120
gatggcgtcc gtcacgtcct tgtagagatg tgcttggtca aactccaggc tgtggcccag 180

```

```

aaagtagtcc accacacagg acagcagagc catctccggg agcgagaaga tgtccatgaa 240
ctgcttaatg gagggaccct tgccatagaa gccactcatc tggatatagt ggatgtgctg 300
ggtagcccca tacagctcaa tcacctcctc gtctggcaca ggctggaggc ccctgtaggc 360
tgtccccag                                     369

```

```

<210> 1086
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 1086
cctcagaggt ttctccacag tcctcttctg ggcaaattct tgtttcttca catgccggac 60
tagcttaaga ccaatgcagt agcttatttc caagccttgc aaagtatata atatctaaga 120
ggaaagggtt tgtcatccca gcgttggtcca ctttgtgggg ctttgtaggc agacggagcc 180
acactacagg cagggatga gcagagggat gtatggagtg tgggtgactc tgagcctcac 240
tgccgctgca aggtggggaa actgtaagtg aaccctgtg ggtgcggggg agggatatccg 300
gtgcgcaggg aggtgg                                     316

```

```

<210> 1087
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<400> 1087
cctgcagggg atgggacctt ccagaagtgg gcgtctgtgg tgggtgcctc tggacaggag 60
cagagataca cctgccatgt gcagcatgag ggtctgcccc agcccctcac cctgagatgg 120
gagccgtctt cccagccac catccccatc gtgggcatca ttgctggcct ggttctcttt 180
ggagctgtga tcgctggagc tgtggctcgt gctgtgatgt ggaggaggaa gagctcagat 240
agaaaaggag ggagctactc tcaggctgca agcagtgaca gtgccaggg ctctgatatg 300
tctccacag cttgtaaagt gtgagacag                                     329

```

```

<210> 1088
<211> 342
<212> DNA
<213> Homo sapiens

```

```

<400> 1088
ccactcactg ctgggacca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60
tcctggaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120
tgcacggatg gcggcagtgt tgaacccagg aggtgaacc cggcccacca cggaagatga 180
gtgcatggca accgcctgcc ttcacgtcgc tccacttggt aaccccaagg tctgggctgt 240
tctaggtatt gcttcacgtg ccccagcaag cccttaacaa gagggcctgg ttccctgaag 300
aaccaatccc aggaaggggc cttgatccct ccgccttgct ga                                     342

```

```

<210> 1089
<211> 51
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 18
<223> n = A,T,C or G

```

F076410661

<400> 1089  
ccttgtgttc agtctccnccg ctcttcttgc cactgttgag ggtggagatg t 51

<210> 1090  
<211> 515  
<212> DNA  
<213> Homo sapiens

<400> 1090  
cctggggagg ccctagggga gcaccgtgat ggagaggaca gagcaggggc tccagcacct 60  
tctttctgga ctggcggttca cctccctgct cagtgccttg gctccacggg caggggtcag 120  
agcactccct aatttatgtg ctatataaat acgtcagatg tacatagaga tctatttttt 180  
ctaaaacatt cccctcccca ctctctctcc acagagtgcg ggactgttcc aggccctcca 240  
gtgggctgat gctgggaccc ttaggatggg gctcccagct cctttctcct gtgaatggag 300  
gcagagacct ccaataaagt gccttctggg ctttttctaa cctttgtctt agctacctgt 360  
gtactgaaat ttgggccttt ggatcgaata tggtaagag gttggagggg aggaaaatga 420  
aggtctacca ggctgagggt gagggcaaag gctgacgaag agggaaagt acagatttcc 480  
tgtagcaggt gtgggcttac agacacatgg actgg 515

<210> 1091  
<211> 277  
<212> DNA  
<213> Homo sapiens

<400> 1091  
gcgtcccga gccacgggtg gtcattggtg ccagagcgct ctgcatgctg gggctgggtcc 60  
tggccttgct gtccctccagc tctgctgagg agtacgtggg cctgtctgca aaccagtgtg 120  
ccgtgccagc caaggacagg gtggactgcg gctaccccca tgtcaccccc aaggagtgca 180  
acaaccgggg ctgctgcttt gactccagga tccctggagt gccttgggtg ttcaagcccc 240  
tgcaggaagc agaatgcacc ttctgaggca cctccag 277

<210> 1092  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 1092  
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120  
ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180  
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctgggtc cgaactcctg 300  
acctcaagga tcctcctgcc tcggcctcct aagggtgctg gattgcaggt gtgagccacc 360  
acgtctgg

<210> 1093  
<211> 459  
<212> DNA  
<213> Homo sapiens

<400> 1093  
ctgtgcatgg agccatttgg atggcggcgg gcgggggggg attctctgta tcaggagtga 60  
ctttgttgcc ccacacagcc tcctgctgca ggtgctttgg aaagagatgc tgccttggag 120  
ctggtgaatc tgtggaccac attcaagggt gtggcacagg catcttccca tccttttcac 180

```

tccgaatcgc tggcgacaca ttctcctttc cagctaggaa agggttcctc gcggtctggtt 240
tagattgtgg ttgtttgttt tgcttctact aagactgttt tgtttcaaaa aggaaacaag 300
ttttgtgttt gctgtctacg ctggagtcct gaactgtggg tagaaaacac gacctggctt 360
tgtagaaagg acacagggct gttttatgaa ctaagcgggtg aggctcaggt ggcggctctc 420
acagagcccc tgatgctggt gttctttgag ggcttaagg 459

```

```

<210> 1094
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 590
<223> n = A,T,C or G

```

```

<400> 1094
ccatgcaaaa ggaggtggtg cactcagtgc agtcgctgcc acaaaaagtc cgattatattt 60
cattggtaca ggggaacata tagatgactt tgaacctttc aaaacacagc cttttattag 120
caaaacttctt ggtatgggog acattgaagg actgatagat aaagtcaacg agttgaagtt 180
ggatgacaat gaagcactta tagagaagtt gaaacatggt cagtttacgt tgcgagacat 240
gtatgagcaa tttcaaaata tcatgaaaat gggcccttct agtcagatct tggggatgat 300
ccctgggtttt gggacagatt ttatgagcaa aggaaatgaa caggagtcaa tggcaaggct 360
aaagaaatta atgacaataa tggatagtat gaatgatcaa gaactagaca gtacggatgg 420
tgccaaagtt tttagtaaac aaccaggaag aatccaaaga gtagcaagag gatcgggtgt 480
atcaacaaga gatgttcgag aacttttgac acaatatacc aagtttgac agatggtaaa 540
aaagatggga ggtatcaaag gacttttcaa aggtgggcca catgtctaan aatgtgagcc 600
agtcacagat 610

```

```

<210> 1095
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 1095
ccttattttct cttgtccttt cgtacagggg ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttgttc cg 232

```

```

<210> 1096
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<400> 1096
ccacgctcat ggaaaccacc caaggacagc cagagtccac attccctggc aagctgggtg 60
tattcttoca aaagtttccc acccagtggg tcagacaggt gtagcgtctc tgcagggtcc 120
cgtgcaatga agtcaaatgc ctcaggcagg aaagccaggc aggcaccag tctggcagcc 180
tctcgaacca gccacgcaca tgttttaaag ttctgttgct tgtctggcgt cgatgttacc 240
tggcacacag ccaccagggg cagttcgcag gaggaagagg agatagccat ggctctgggc 300
ctgggctgag cacaaagtac tgagagttga ggtatccgga gtccaggaca cagaagggac 360
aggaatctgt gaggagg 377

```

<210> 1097  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 1097  
 ccacgccatg gggctggagc actcccaaga ccctggggcc ctgatggcac ccattttacac 60  
 ctacaccaag aactttccgtc tgtcccagga tgacatcaag ggcatcagg agctctatgg 120  
 ggcctctcct gacattgacc ttggcaccgg cccaccccc acactgggccc ctgtcactcc 180  
 tgagatctgc aaacaggaca ttgtatttga tggcatcgct cagatccgtg gtgagatctt 240  
 cttcttcaag gaccggttca tttggcggac tgtgacgcca cgtgacaagc ccatggggcc 300  
 cctgctggtg g 311

<210> 1098  
 <211> 404  
 <212> DNA  
 <213> Homo sapiens

<400> 1098  
 ccacccacgc ttaggttccc atcacactga tgactccggg tttggcgagc acaggagcgc 60  
 aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat 120  
 accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180  
 tgcaagtcc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatgggt 240  
 ctgtgctcac cattagattg atggttgaaac tagaagctga ccttgctggc tgtggagggtg 300  
 ggggctgaga tttcttttga ctgaaacttc cgtggttagt ggctctgacc tgagacctca 360  
 ggtagcagac cacagccaca tggatatgtc gccagcgag cagg 404

<210> 1099  
 <211> 442  
 <212> DNA  
 <213> Homo sapiens

<400> 1099  
 ccatgggatg gctcttctga ccattggggg ccaggccagg ccaggccagg cttagggtag 60  
 caaggaccag gccaaagggg cagggcctcc tttggagggg ttgaggggta catcctcggc 120  
 tgggtgtttgc atccaggggt ccagcaggat ctcttcagc gagggtcggg aagaagggtt 180  
 gggggccagg caccggcgga ttagggcaca gcagtctggg gagacatggg ctgggaagtg 240  
 gagctcagct tccagaatct cctggctcct ctcaaaggga atgtccccac acaccatgtc 300  
 atagaggagg atgccagtg accagacagt ggccgggagt gcatggtact ggtgtcgaga 360  
 gatccactct ggggggctgt acacccttgt cccatcaaag tcagtgtagg gttcatcatg 420  
 aagcagggca ccaggaacca aa 442

<210> 1100  
 <211> 191  
 <212> DNA  
 <213> Homo sapiens

<400> 1100  
 ccacgaaaat caatgagaag ccacaggtga tcgcggacta tgagagcgga cgggccatac 60  
 ccaataacca ggtgcttggtc aaaatcgagc gggccattgg cctcaagctc cggggaaagg 120  
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaagc ctcgaaatca 180  
 gtgcgctcca g 191

<210> 1101

<211> 178  
 <212> DNA  
 <213> Homo sapiens

<400> 1101  
 cgggtacttt ggtggacatg aaggaactgg gcatatggga gccattggct gtgaagctgc 60  
 agacttataa gacagcagtg gagacggcag ttctgctact gcgaattgat gacatcgttt 120  
 caggccacaa aaagaaaggc gatgaccaga gccggcaagg cggggctcct gatgctgg 178

<210> 1102  
 <211> 209  
 <212> DNA  
 <213> Homo sapiens

<400> 1102  
 agccaggcta gtgacagaaa tggattcgaa atatcagtgt gtgaagctga atgatgggtca 60  
 cttcatgcct gtccctgggat ttggcaccta tgcgcctgca gaggttccta aaagtaaagc 120  
 ttttagaggcc accaaattgg caattgaagc tggcttcgcg catattgatt ctgctcattt 180  
 atacaataat gaggagcagg ttggactgg 209

<210> 1103  
 <211> 396  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 351  
 <223> n = A,T,C or G

<400> 1103  
 ctatagggct cgagggccgc ccgggcaggt ggtgcctcta atactgggtga tgctagaggt 60  
 gatgtttttg gtaaacaggc ggggtaagat ttgccagatt ccttttactt tttttaacct 120  
 ttccttatga gcatgcctgt gttgggttga cagtgggggt aataatgact tgttgggtga 180  
 ttgtagatat tgggctgtta attgtcagtt cagcgtttta atctgacgca ggcttatgca 240  
 gaggagaatg ttttcatgtt acttatacta acattagttc ttctataggg tgatagattg 300  
 gtccaattgg gtgtgaggag ttcagttata tgtttgggat tttttaggta ntgggtggtg 360  
 agcttgaacg ctttcttaat tgggtggctgc tttagg 396

<210> 1104  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 224, 226, 302  
 <223> n = A,T,C or G

<400> 1104  
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 gataccggga agacctgatg gcgggaatca tcatcgcagg ctgggaccct caagaaggag 180  
 ggcaggtgta ctccagtgcct atggggggta tgatggtaag gcantncttt gccattggag 240



gctccgggag ctctacatc tatggctatg ttgatgctac ctaccgggaa ggcattacca 300  
 angaagagtg tctgcaattc actgccaatg ctctcgcttt gg 342

<210> 1105  
 <211> 551  
 <212> DNA  
 <213> Homo sapiens

<400> 1105  
 ctggggccac tgtcggcatc atgattggag tgctgggttg ggttgctctg atatagcagc 60  
 cctggtgtag tttcttcatt tcaggaagac tgacagttgt tttgcttctt ccttaaagca 120  
 tttgcaacag ctacagtcta aaattgcttc ttaccaagg atatttacgg aaaagactct 180  
 gaccagagat cgagaccatc ctagccaaca tcgtgaaacc ccatctctac taaaaatata 240  
 gaaattagct ggacatgggtg gcatgtgcct gtaatcccag ctactcagga ggctgaggca 300  
 ggagaactgc ttgaacaggg aocggggagg cggagattgg agtgagccga gatcgcgcca 360  
 ctgcactcca gtctgggcta cacagtgaga ctctgtctca agaaaaataa acagaagaat 420  
 tgggggttg gggtgggaaa cagtgtttcc aggcagagag aacagcacgt acaaaggaga 480  
 ctgttgggag gggttaaatga aataattcat gtaagggtact tagtaccaca catgaatttc 540  
 acaagcagca g 551

<210> 1106  
 <211> 280  
 <212> DNA  
 <213> Homo sapiens

<400> 1106  
 ctgctcttca cacagggttc tggggaaaac aaggaagaga tcatcaatta tgaatttgac 60  
 accaaggacc tgggtgtgctt gggcctgagc agcatcgttg gcgtctggtt cctgctgagg 120  
 aagcactgga ttgccaacaa cctttttggc ctggccttct cccttaatgg agtagggctc 180  
 ctgcacctca acaatgtcag cactggctgc atcctgctgg gcggactctt catctacgat 240  
 gtcttctggg tatttggcac caatgtgatg gtgacagtgg 280

<210> 1107  
 <211> 570  
 <212> DNA  
 <213> Homo sapiens

<400> 1107  
 ctgattagtg tctaaggaat ggtccaatac tgttgccctt ttcccttgact attacactgc 60  
 ctggaggata gcagagaagc ctgtctgtac ttcatcctaa aagccaaaat agagagtata 120  
 cagtcctaga gaattcctct atttgttcag atctcataga tgacccccag gtattgtctt 180  
 ttgacatcca gcagtccaag gtattgagac atattactgg aagtaagaaa tattactata 240  
 attgagaact acagctttta agattgtact tttatcttaa aagggtggta gttttcccta 300  
 aaatacttat tatgtaaggg tcattagaca aatgtcttga agtagacatg gaatttatga 360  
 atggttcttt atcatttctc ttcccccttt ttggcatcct ggcttgctc cagttttagg 420  
 tcctttagtt tgcttctgta agcaacggga acacctgctg agggggctct ttccctcatg 480  
 tatacttcaa gtaagatcaa gaatcttttg tgaaattata gaaatttact atgtaaatgc 540  
 ttgatggaat tttttcctgc tagtgtagct 570

<210> 1108  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 1108  
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 ttacatcaaa taagcccaca gacaaactcc gtgccctgcc tctgtgggta tctttacaat 120  
 acttgggact tgatgggttt gtggagagga tcaagcatgc ctgtcaactg agtcaacggc 180  
 tgcaggaaaag tttgaagaaa gtgaattaca tcaaaatctt ggtggaagat gagctcagct 240  
 cccagtggt ggtgttcaga tttttccagg aattaccagg ctcagatccg gtgtttaaag 300  
 ccgtcccagt gcccaacatg acaccttcag gagtcggccg ggagaggcac tcgtgtgacg 360  
 cgctgaatcg ctggctggga gaacag 386

<210> 1109  
 <211> 409  
 <212> DNA  
 <213> Homo sapiens

<400> 1109  
 ctctggtctg taaccagtct cttcaaggca ttatctcctg gggccaggat ccgtgtgcga 60  
 tcacccgaaa gcctggtgtc tacacgaaag tctgcaaata tgtggactgg atccaggaga 120  
 cgatgaagaa caattagact ggacccaccc accacagccc atcacctcc atttccactt 180  
 ggtgtttggt tctgtttcac tctgttaata agaaacccta agccaagacc ctctacgaac 240  
 attctttggg cctcctggac tacaggagat gctgtcactt aataatcaac ctgggggttcg 300  
 aaatcagtga gacctggatt caaattctgc cttgaaatat tgtgactctg ggaatgacaa 360  
 cacctggttt gttctctgtt gtatccccag ccccaaagac agctcctgg 409

<210> 1110  
 <211> 215  
 <212> DNA  
 <213> Homo sapiens

<400> 1110  
 ccattttgga gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60  
 aatggagggg gttgagggag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120  
 ataggcgagc tcgatctcct catcatctgg acagggtggaa gcgaattctt cccgggcgta 180  
 ggcattgctc aagtaccgat gcactccccg gaagg 215

<210> 1111  
 <211> 308  
 <212> DNA  
 <213> Homo sapiens

<400> 1111  
 cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60  
 ttattttactg agatggagtc ttgctctgtc acccaggctg gaggtcagtg gtgcaatctc 120  
 ggctcactgc aacctctgcc tcttgggctg cagtgattct cctgcgttca agtaattctc 180  
 ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240  
 tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctggtct cgaactcctg 300  
 acctcaag 308

<210> 1112  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 1112  
 ccactggctc cctgggccag ggcctcgggg ccgcttgtgg gatggcctac accggcaaat 60

106207-457099

acttcgacaa ggccagctac cgagtctatt gcttgctggg agacggggag ctgtcagagg 120  
gctctgtatg ggaggccatg gccttcgcca gcatctataa gctggacaac cttgtgg 177

<210> 1113  
<211> 646  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 529, 580, 622  
<223> n = A,T,C or G

<400> 1113  
ccccaccatg gacacacttt gctacacact cctgctgctg accacccctt cctgggtctt 60  
gtcccagggtc accttgaagg agtctgggtcc tgtactgggtg aaaccacag agaccctcac 120  
gctgacctgc accgtctctg ggttttcaact cagtaatat agagtgggtg tgagttggat 180  
ccgtcagccc ccagggaagg ccctggagtg gtttgcatac attttttcga ctgacgaaaa 240  
atccttcaat tcatctctga agaacaggct caccatctcc aaggacacct ctaaaagcca 300  
ggtggctcctt agcatgacca acatggaccc tgtggacaca gccacatatt actgtgcacg 360  
gctctctatt tacttcgggg agttagaaac ctaccaatac atggacgtct ggggcaaagg 420  
gaccaccgcc accgtctcct cagcatcccc gaccagcccc aaggtcttcc cgctgagcct 480  
ctgcagcacc cagccagatg ggaacgtggt catcgctgc ctggtccang gcttcttccc 540  
ccaggagcca ctcaagtgtga cctggagcga aagcggacan ggcgtgaccg ccagaaactt 600  
ccccacccag ccaggatgcc tncgggggacc tgtacaccac gagcag 646

<210> 1114  
<211> 420  
<212> DNA  
<213> Homo sapiens

<400> 1114  
tgttggtttta ctcacctaac ccttagaaaa tgaatgtag aaggtgcctg ccgaggcggg 60  
acagagtgtt cgctcgcgct ggagaaggct ctgctcagcc ctgagagtcc cttcctgccc 120  
caccgatact ggcactttta aaaggaagct gaccgcacag tgtccagacg aattggcccc 180  
cagaagatgg ggagttctgt cctgcccttc tgtgtctgcy tgacctcacc cagcctagga 240  
gggaggtgca ttcagggtag atttgccctc cattcaaagt tctggggctt tgggtggaaa 300  
acagccagct ttggcgctgt tggggagact cctccagacc aggaacccca gaaggagaca 360  
gagcctgcca catcctccca cgccaggccc tgggcccaggg tgattggact gagaatttgg 420

<210> 1115  
<211> 416  
<212> DNA  
<213> Homo sapiens

<400> 1115  
ctgaaagttt ctaaaataga aacctgggtgc atatggcccc aaaacaccac atgctttgat 60  
tacactcagg gagcatgagt tgcctatattt ggtgagaaaa tcccatgtta cagtgcgac 120  
gctgggacag ttttggagta attccagcca ctgctatgta agtgttttta attcaggggt 180  
gtcttctacg ttttcatctt ctgaatatct tgtgacgggtg caggtttgag caaaactggc 240  
atgaaatgag agctgtttta gatgaagatt gcaagatgga tggcttggcc cacagtggca 300  
gtgggttggg ggtggaatgt ggacaattag gaaaaaggca tgtcattcta tctggctcct 360  
ggagaggcag atagtccttg gggcttttgt gtcacagttc ccaaaagcaa gggttg 416

<210> 1116  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<400> 1116  
 ccttattttct cttgtccttt cgtacagga ggaatttgaa gtagatagaa accgacctgg 60  
 attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120  
 atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180  
 atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cgttgggtcaa 240  
 gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300  
 ctcgagggtt gggttctgct ccgaggtcgc cccaaccgaa aatttttaat gcaggcctgg 360  
 tagtttagga cctgtgggtt tg 382

<210> 1117  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 1117  
 ctgcgtgtct gaaaacacaa gatttaaaac atagtaatta ttgaacctca gaagaaaaac 60  
 tcagattgaa agagcttaga ataagaccct ttttgagttg agaaagggtga gtacttagat 120  
 ttttcatttg ctttgtttgg gattacttac atcagtattt tatgttgatc agaaagaaag 180  
 gattcaatta gctattgttc ggtaataaaa aatgtcagcc actgtaggag taagttggat 240  
 gtccagcctt tttagattgc ttaacttggg aacactggac tgggagcggg ggctcatgcc 300  
 tgtgatccca gcaactctggg aggccaaggc aggcagatca ctggagggtca ggagtttgag 360  
 accaacctgg 370

<210> 1118  
 <211> 494  
 <212> DNA  
 <213> Homo sapiens

<400> 1118  
 ctgtctctta cttttaacca gtgaaattga cctgcccgtg aagaggcggg cataacacag 60  
 caagacgaga agaccctatg gagctttaat ttattaatgc aaacagtacc tgacaaaccc 120  
 acaggctcta aactaccaga cctgcattaa aaatttcggg tggggcgacc tcggagcaga 180  
 acccaacctc cgagcagtag atgctaagac ttcaccagtc aaagcgaact actatactca 240  
 attgatccaa taacttgacc aacggaacaa gttaccctag ggataacagc gcaatcctat 300  
 tctagagtcc atatcaacaa tagggtttac gacctcgatg ttggatcagg acatcccgat 360  
 ggtgcagccg ctattaaagg ttcgtttggt caacgattaa agtcctacgt gatctgagtt 420  
 cagaccggag taatccaggt cggtttctat ctacttcaaa ttcttcctg tacgaaagga 480  
 caagagaaat aagg 494

<210> 1119  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<400> 1119  
 ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60  
 tccgggcctc cctccaagga gattctgacc ctgaagcagg tcaggaggtt cctgaaggat 120  
 ggagacgatg tcatcatcat cgggggtctt aagggggaga gtgaccagc ctaccagcaa 180

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taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagtcgg ttgtaatgca gcctgagaaa 300
ttccagtcga agtatgagcc ccggagccac atgatggacg tccagggctc caccaggac 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tgggttg 407

```

```

<210> 1120
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 513
<223> n = A,T,C or G

```

```

<400> 1120
ccccagagga cccgttggac ccagtggacc tcctggcaaa gatggaacca gtggacatcc 60
agggtccatt ggaccaccag ggcctcgagg taacagaggt gaaagaggat ctgagggctc 120
cccaggccac ccagggcaac caggccctcc tggacctcct ggtgcccctg gtccttgctg 180
tgggtggtgtt ggagccgctg ccattgctgg gattggaggt gaaaaagctg gcggttttgc 240
cccgatttat ggagatgaac caatggattt caaaatcaac accgatgaga ttatggcttc 300
actcaagtct gttaatggac aaatagaaaag cctcattagt cctgatgggt ctcgtaaaaa 360
cccagctaga aactgcagag acctgaaatt ctgccatcct gaactcaaga gtggagaata 420
ctgggttgac cctaaccaag gatgcaaatt ggatgctatc aaggatttct gtaatatgga 480
aactggggaa acatgcataa gtgccaatcc ttngaattgt ccacggaaac actggtggac 540
agattcta 548

```

```

<210> 1121
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<400> 1121
cggccgaggt ccgccatggc gtgtgctcgc ccaactgatat cgggtgtactc cgaaaagggg 60
gagtcactctg gcaaaaatgt cactttgcct gctgtattca aggctcctat tcgaccagat 120
attgtgaact ttgtttacac caacttgcgc aaaaacaaca gacagcccta tgctgtcagt 180
gaattagcag gtcactcagac tagtgctgag tcttggggta ctggcagagc tgtggctcga 240
attcccagag ttcgaggtgg tgggactcac cgctctgg 278

```

```

<210> 1122
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<400> 1122
ctgcagcggc agaggcagca tccagcggcg gcgccagcag ttccagtcag ttgctttact 60
ttttgcttca ccgacatagt cattatgccg aagagaaagt ctccagagaa tacagagggc 120
aaagatggat ccaaagtaac taaacaggag ccacaaagac ggtctgccag attgtcagcg 180
aaacctgctc caccaaaacc tgaacccaaa ccaagaaaaa catctgctaa gaaagaacct 240
ggagcaaaga ttagcagagg tgctaaaggg aagaaggagg aaaagcagga agctggaaag 300
gaaggcacag aaaactgaat ctgtagataa cgaggagaga tgaattgtca tgaaaaattg 360
gggttgattt tatgtatctc ttgggacaac ttttaaaagc tatttttacc aagtattttg 420
taaagtctaa ttttttagga ctctactagt tggcatacga aaatatataa ggatggacat 480
tttatcgtct catagtcatg ctttttggaa atttacatca tcctcaagta aaataaatat 540

```

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<210> 1123
<211> 454
<212> DNA
<213> Homo sapiens
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<210> 1124
<211> 219
<212> DNA
<213> Homo sapiens
```

```
<210> 1125
<211> 246
<212> DNA
<213> Homo sapiens
```

```
<210> 1126
<211> 227
<212> DNA
<213> Homo sapiens
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<210> 1127  
<211> 377  
<212> DNA

<213> Homo sapiens

<400> 1127

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cctgccgtcg atgccagga ggccgacagg accttctttt ccagcggggc cgatatttcc 60
aggggaacca ggaagacctc tgggtcccat gagaccaggc tcccagggc gaccagcatc 120
tccattaggt cctcggactc cagcagggcc atttgcacca cgactaccag gagggcccat 180
gacgccagct ctgccatcag ctccaggaag accacgagaa ccaggactac ctctcagccc 240
aggaggtcct ggagggcccg cagatccagc ttccccatta gggcctctct ttccttcttc 300
accactggga ccaggaggac cttggggccc agcagagccg ggctcaccct tgttaccgct 360
ctctcctttg gagccag                                     377
```

<210> 1128

<211> 253

<212> DNA

<213> Homo sapiens

<400> 1128

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gagagctatt gctttgttaa gatataaaaa ggggtttctt tttgtctttc tgtaagggtgg 60
acttccagct tttgattgaa agtcctaggg tgattctatt tctgctgtga tttatctgct 120
gaaagctcag ctggggttgt gcaagctagg gacccattcc tgtgtaatac aatgtctgca 180
ccaatgctaa taaagtccta ttctctttta tgagaaagaa aaagacactg tcctttaaaag 240
tgctgcagta tgg                                     253
```

<210> 1129

<211> 314

<212> DNA

<213> Homo sapiens

<400> 1129

```
ccaagagcta caatgagcag cgcacagac agaacgtgca ggtgtttgaa ttccagttga 60
cttcagagga gatgaaagcc atagatggcc taaacagaaa tgtgcgatat ttgaccttg 120
atatttttgc tggccccca attatccatt ttctgatgaa tattaacatg gagggcattg 180
catgaggtct accagaaggc cctgcgtgtg gatggtgaca cagaggatgg ctctatgctg 240
gtgactggac acatcgcttc tgggttaaata tctcctgctt ggtgatttca gcaagctaca 300
gcaaagccca ttgg                                     314
```

<210> 1130

<211> 239

<212> DNA

<213> Homo sapiens

<400> 1130

```
ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagtcag 60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
aggtgccaaa tcccaggaca ggcataaggt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggcta gcaaattgtt cttcctccct cacaggcta 239
```

<210> 1131

<211> 402

<212> DNA

<213> Homo sapiens

<400> 1131

```
aaggagtccct gcttatcaca atgaatgttc tctggggcag cgttgtgatc ttgcccacct 60
```

1007474050

```
<210> 1132
<211> 304
<212> DNA
<213> Homo sapiens
```

```
<210> 1133
<211> 224
<212> DNA
<213> Homo sapiens
```

```
<210> 1134
<211> 250
<212> DNA
<213> Homo sapiens
```

```
<210> 1135
<211> 315
<212> DNA
<213> Homo sapiens
```

| 400 1135   |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| ccaatgggct | ttgctgtagc | ttgctgaaat | caccaagcag | gagagattta | accagagggc | 60  |
| atgtgtccag | tcaccagcat | agagccatcc | tctgtgtcac | catccacacg | cagggccttc | 120 |
| tggtagacct | catgcaatgc | cctccatgtt | aatattcttc | agaaaaatga | taattagggg | 180 |
| ggccagcaaa | aatatcaagg | gtcaaatatc | gcacatttct | gtttaggcca | tctatggcct | 240 |
| tcactcctc  | tgaagtcaac | tgaattcaa  | acacctgcac | gttccgtctg | atgcgctgct | 300 |



cattgtagct cttgg

315

&lt;210&gt; 1136

&lt;211&gt; 377

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1136

```

cctgccgtcg atgccaggga ggccgacagg accttctttt ccagcggggc cgatatttcc 60
aggggaacca ggaagacctc tgggtcccat gagaccaggc tccccagggc gaccagcatc 120
tccattaggt cctcggactc cagcagggcc acttgcacca cgactaccag gagggcccat 180
gacgccagct ctgccatcag ctccaggaag accacgagaa ccaggactac ctctcagccc 240
aggaggtcct ggagggcccg cagatccagc ttccccatta gggcctctct ttcttcttc 300
accactggga ccaggaggac cttggggccc agcagagccg ggctcacctt tgttaccgct 360
ctctcctttg gagccag                                     377

```

&lt;210&gt; 1137

&lt;211&gt; 250

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1137

```

ctgttcaact tccaactcta aataggcacc attaaacaaa aaaccccagt attttaaatt 60
tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120
ggaatacagc cttagaatgg aagctatatt gcttcctgc cccctttctc ttacaattgg 180
agagtgtagg tattaaggga tacaaagtca gaggaagaat aattaaaaag aaaaatgccc 240
aaagctgcag                                     250

```

&lt;210&gt; 1138

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 431

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1138

```

tcgaccaggt cctcctgggc catctggtcc ccgaggtcag cctggtgtca tgggcttccc 60
cggtcctaaa ggaaatgatg gtgctcctgg taagaatgga gaacgaggtg gccctggagg 120
acctggccct cagggtcctc ctggaaagaa tggtgaaact ggacctcagg gacccccagg 180
gcctactggg cctggtggtg acaaaggaga cacaggaccc cctggtccac aaggattaca 240
aggcttgctt ggtacagggtg gtccctccagg agaaaatgga aaacctgggg aaccagggtcc 300
aaaggtgatg gccggtgcac ctggagctcc aggaggcaag ggtgatgctg gtgcccctgg 360
tgaacgtgga cctcctggat tggcaggggc ccaggactt agaggtggag ctggtccccc 420
tggtcccga ngaggaaagg gtgctgctgg tctcctggg ccacctgggt ctgctggtac 480
tctggtctg caaggaatgc ctggagaaag a                                     511

```

&lt;210&gt; 1139

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

T0520T # 454T05T

<400> 1139  
 ctgtggactc cagcatgttt ctgataatta tgcaagcaac aattctgtag cctcaagtaa 60  
 gaccacctgt gaacttgatc attatctggc ccaaatatga agataaacta taactttgga 120  
 gtttgtttcc tatttgtatt cacattctgc ttcctaaatc agttttctaa attgtgcctg 180  
 caattaggca ttggtcaggg gtgaatggct cttttcacag agagtagcca accagagacc 240  
 tttgctttga tatcatcaac tgcagagaat gctgttgatg ggaatgctgg aagcagaaac 300  
 tttgtcatcg gaaaaacttt tcttgtatgc atgagactca acatcaggat ccacagctta 360  
 aagatgggaa ttcagggtatg aaagaaaaca ggcaaggagg cactgaggga gaaagacaca 420  
 gaactttatcg ctctgtggct cattgttact ggaatattct aaaactcttg ttcacatgct 480  
 attatgactt ataaagcagc aacag 505

<210> 1140

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1140  
 ctgtagcttc tgtgggactt ccaactgctcg ggcgtcaggc tcaggtagct gctggccgcg 60  
 tacttgttgt tgctctgttt ggagggtttg gtgggtctcca ctccgcctt gacggggctg 120  
 ccatctgcct tccaggccac tgtcacagct cccgggtaga agtcactgat cagacacact 180  
 agtgtggcct tgttggcttg gagctcctca gaggagggcg ggaacagagt gacagtgggg 240  
 ttggccttgg gctgac 256

<210> 1141

<211> 371

<212> DNA

<213> Homo sapiens

<400> 1141  
 ccagggcccc attctgtctg tgggactgtg ggttctcagt ggaattgttg cttttcttgt 60  
 cgtggagaaa tttgtgagac atgtgaaagg aggacatggt cacagtcatg gacatggaca 120  
 cgctcacagt catgcacgtg gaagtcatgg acatggaaga caagagcgtt ctaccaagga 180  
 gaagcagagc tcagaggaag aagaaaagga aacaagaggg gttcagaaga ggcgaggagg 240  
 gagcacagta cccaaagatg ggccagttag acctcagaac gctgaagaag aaaaaagagg 300  
 cttagacctg cgtgtgtcgg ggtacctgaa tctggctgct gacttggcac acaacttcac 360  
 tgatggtctg g 371

<210> 1142

<211> 312

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 292

<223> n = A,T,C or G

<400> 1142

cctccacac tgtcaaatgt caactccacc agcactgaga caatgagtag atgagaatgt 60  
 agaaagaggg aagggtggtag gtaaaggagc ggaaggaaga ggtggggaaa gagggaaggt 120  
 ggtaggtaaa ggagcggaag gaagaggtgg ggaaagaggg aaggagagaa gggaaggagg 180  
 gaagagaaaag aaggaagaaa aggaaagcat ggcccggcta gagacaaagc cagaggtgat 240  
 caggtcagca gcaggagagg ctcagaaggg agcctctcgg gaagtgcagg cngccatgag 300  
 ggctcgtttc ag 312

<210> 1143  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 1143  
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60  
 cttgaggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120  
 atacaaaaaa ttagccaagt gtggtggcat atgcctgtaa tcccaactac tcagaaggcc 180  
 gaggcaggag aattacttga acgcaggaga atcactgcag cccaggaggc agaggttgca 240  
 gtgagccgag attgcaccac tgcactccag cctgggtgac tgagcaagac tccatctcag 300  
 taaataaata aataaataaa aagcgcgtgca gtagctgtgg cctcaccctg aagtcagcgg 360  
 gccagg 367

<210> 1144  
 <211> 159  
 <212> DNA  
 <213> Homo sapiens

<400> 1144  
 cctggaggag cggccgcaca cacagccagg cgctaggctc cctgcgggac ctcgggaagg 60  
 ggggaagagcg tcaacgattt acggaggggc cagccgctgg gtcagattga gacaaacat 120  
 tgtgtggttg ggttcgggctc agcaggctgg agagggttc 159

<210> 1145  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 1145  
 ccatgggtgt ctggagcacc ctgaaactgt atcaaagtgt tacatatattc caaacatttt 60  
 taaaatgaaa aggcaactctc gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120  
 aggcatttaa agatgtttct ggcattttct ttttatttgt aagggtggtg taactatggt 180  
 tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240  
 acaaccgaga caaaccttg atgctccttg ctcggcgttg aggctgtggg gaagatgcct 300  
 tttgggagag gctgtagctc agggcggtgca ctgtgaggct ggacctgttg actctgcagg 360  
 gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420  
 ccatcttagc tgtggacaaa ggggggtcag 450

<210> 1146  
 <211> 324  
 <212> DNA  
 <213> Homo sapiens

<400> 1146  
 ccatacaggg ctgttgccca ggccctagag gtcattcctc gtaccctgat ccagaactgt 60  
 gggggccagca ccatccgtct acttacctcc cttcggggca agcacacca ggagaactgt 120  
 gagacctggg gtgtaaatgg tgagacgggt actttggtgg acatgaagga actgggcata 180  
 tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240  
 ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg 300  
 caaggcgggg ctctctgatgc tgga 324

<210> 1147

<211> 191  
 <212> DNA  
 <213> Homo sapiens

<400> 1147  
 ccacgaaaat caatgagaag ccacaggtga tcgcggacta tgagagcgga cgggccatac 60  
 ccaataacca ggtgcttggc aaaatcgagc gggccattgg cctcaagctc cggggaaagg 120  
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaagc ctcgaaatca 180  
 gtgtgtctcca g 191

<210> 1148  
 <211> 344  
 <212> DNA  
 <213> Homo sapiens

<400> 1148  
 ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60  
 tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagc catcctgaat 120  
 gtcctctatg gccagacga ccccaccatt tccccctcat acacctatta ccgtccaggg 180  
 gtgaacctca gcctctcctg ccatgcagcc tctaaccacac ctgcacagta ttcttggctg 240  
 attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300  
 aacagcggac tctatacctg ccaggccaat aactcagcca gtgg 344

<210> 1149  
 <211> 329  
 <212> DNA  
 <213> Homo sapiens

<400> 1149  
 ctgaccact cactgggcgg gggcacaggc tctggaatgg gcactctcct tatcagcaag 60  
 atccgagaag aataccctga tcgcatcatg aataccttca gtgtggtgcc ttcacccaaa 120  
 gtgtctgaca ccgtggtcga gccctacaat gccaccctct ccgtccatca gttggtagag 180  
 aatactgatg agacctattg cattgacaac gaggccctct atgatatctg ctccgcgact 240  
 ctgaagctga ccacaccaac ctacggggat ctgaaccacc ttgtctcagc caccatgagt 300  
 ggtgtcacca cctgcctccg tttccctgg 329

<210> 1150  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 1150  
 ccagttatatt gcaagtggta agagcctatt taccataaat aatactaaga accaactcaa 60  
 gtcaaacctt aatgccattg ttattgtgaa ttaggattaa gtagtaattt tcagaattca 120  
 cattaacttg attttaaaat cagttttgtg agtcatttac cacaagctaa atgtgtacac 180  
 tatgataaaa acaaccattg tattcctgtt tttctaaaca gtcttaattt ctaacactgt 240  
 atatatcctt cgacatcaat gaactttgtt ttcttttact ccagtaataa agtaggcaca 300  
 gatctgtcca caacaaactt gccctctcat gccttgctc tcaccatgct ctgctccagg 360  
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgct 406

<210> 1151  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

```
<210> 1152
<211> 427
<212> DNA
<213> Homo sapiens
```

```
<210> 1153
<211> 331
<212> DNA
<213> Homo sapiens
```

```
<210> 1154
<211> 403
<212> DNA
<213> Homo sapiens
```

<210> 1155  
<211> 491  
<212> DNA

<213> Homo sapiens

<400> 1155

```
cctccctctc agagcttgcc ccagggactc tctggccctc aggggttcaat gtattctgac 60
caaggccaag ctttcctggg gctcagggaa aatcacactt tgctaccgga agctgtatcc 120
cctcagatgc caggaaggcc gtgatcatct gactccaccc tcctgagaca cattctctcc 180
ctgactgtcc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca 240
gatgcagcct ctgtgaacag gtgcctggag gctgggaaat gaccctgaga gggcaggaca 300
cagcaaccgt gggcttaagg tgaccttgag agcaagcttg gccacttta caattctgtt 360
cagagccagc ccctaacatg gtggtcattt attcatttgt tccctcattt taaaaaatgt 420
aaggccaggc atggtggctc acgccgggta atccagcac tttgggaggc cgaggcaggc 480
agatcacctg a                                     491
```

<210> 1156

<211> 586

<212> DNA

<213> Homo sapiens

<400> 1156

```
agcaaataga agcaatcagg gcactgcaag ttgtgactac tccaagatgt gaatcatgga 60
tcatgcaaat tacaatcatg ttttaacctg acctccaaag ggagaataaa gtaaaaaatta 120
tcccatgtga ggattattca ccagtttata tgtcattagt taccagtttt tctttatgaa 180
taatgttttag caatattata aagtatatct aatagttatc aggtttttgg cttgttactt 240
tttggtagta acttataaaa ctgactggaa aagaccaata aggcactgtt tgcattgtac 300
aaattatata caaagaccaa aagctgttaa taagaaatct tccaataaaa ccacatcata 360
ttttcttttt tatttacacc cacatcagga ttacaacttt atcaggactg caccttgatc 420
aggaagggat gtttctctta caaggctaata aagaaaggaa caataaattt gctgatgaaa 480
aaagtcatgc atttaaaaaa ttttaacttta atttttaatt gagggcaata ttttaaagaa 540
atgctcatta gtcattcctt taaatttgtgt gtgtgagaga gagaaa                    586
```

<210> 1157

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 373, 389

<223> n = A,T,C or G

<400> 1157

```
cctccggctg gtgttctgag ggttgccagg ccatcgtgga cacaggcacc tctctgctca 60
ctgtgccccg gcagtacatg agtgetcttc tgcaggccac aggggcccag gaggatgagt 120
atggacagtt tctcgtgaac tgtaacagca ttcagaatct gccagcttg accttcatca 180
tcaatggtgt ggagttccct ctgccacctt cctcctatat cctcagtaac aacggctact 240
gcaccgtggg agtcgagccc acctacctgt cctcccagaa cgccagccc ctgtggatcc 300
tcgggggatgt ctctctcagg tcctactatt ccgtctacga cttgggcaac aacagagtag 360
gctttgccac tgnccgctag acttgctgnc tc                                     392
```

<210> 1158

<211> 375

<212> DNA

<213> Homo sapiens



```

<400> 1162
cctgggtgcc acgattccca gcctggagcg cagccaggac gtgggagacc ttctcagaga 60
ctctccgggc aactctatg agctccttct tgggttaggc atcactgggg ctgcactgca 120
gggcgcctgc cttggtgacc agagcggcac agccatggcc cagctcctgt acccgggtgt 180
tgatatggga acctatctct tcatttttcag cagccaccgc tgcaggcttg gcctccgagg 240
ccagacggcc atagtcactg gtcag                                     265

```

```

<210> 1163
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15, 204, 205, 212, 224, 263, 285, 293
<223> n = A,T,C or G

```

```

<400> 1163
ctgcagagtg ggganaggct tttgccaacta gaaacttcca ggatgcacga gatcaaggaa 60
ttaagtctgt aacaaaataa caggatgctc tgtgaagtcc aaagaattgc ttgaggcaaa 120
ctgcagagct ccatgagatc agcaacccca agagctttta caccgccgga cacggtttta 180
taggaaaaaa atctcctata ctgnntattc anaaccaa at gaanagaaat gtcaaaggag 240
tcggaaacaa tatgtcaaat tangtaaatt cctgacctga cccanatttt gcngaacatt 300
tgatcctaaa ctgtgctgtc cacgtcctta ggatcac                                     337

```

```

<210> 1164
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 221, 226, 233, 242
<223> n = A,T,C or G

```

```

<400> 1164
ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
cttgagggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120
aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180
cgaggcagga gaattacttg aacgcaggag aatcactgca nccangagg canagggttg 240
antgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300
gtaaataaat aaataaataa aaagcgctgc agtagctgtg gcctcaccct gaagtcagcg 360
ggcccagg                                     368

```

```

<210> 1165
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 179, 211, 214, 235, 251, 252
<223> n = A,T,C or G

```



<400> 1165  
ctgggaagga ggctcctccg ccttctcctg tttgtcatcc tcctcatcag actcgacctc 60  
catctcaact tcctcactct ccccaaactt ttcatagcgc tcctgaatga ggattcgggc 120  
ccccagctcc tctggcgtgg tggggggagg gaagttccct tgctcattgg gttggaagnc 180  
cactgtttcc accaccacaa aatcatgcca ntcnatctga gcataggcca cccgntcctt 240  
ctcctttctcc nntttcttct tcttctct 267

<210> 1166  
<211> 433  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 142, 323, 354, 376, 381, 382, 402, 408, 422  
<223> n = A,T,C or G

<400> 1166  
ctgtctgtac actttttctt gggggaagag ttcttgtctt cagtttactg cagtaggggtt 60  
cctggctctg ttacatgctc atgtgttccg gaagaacaca tgaaatatca tcccacggat 120  
gacgatacag cccctgcttc ancctcttct gatcaagata gtgtccaatg aacccatac 180  
tccttcccag cacaaagatg ccattgaggg ctccaatgtc aatatattca tcagcttctt 240  
ccctgcaaca cacatcaact tgtagtttta aaaggctcac gtgactgcc tcctccccac 300  
agacagtact actactgcc aanaatgaga agaaaagggg tgctctgggt ggtngcatta 360  
caggcaattt ttgttntctt nnttatacct ctcttattt tncaaatntt ctattatgag 420  
tntgcattac ttt 433

<210> 1167  
<211> 362  
<212> DNA  
<213> Homo sapiens

<400> 1167  
cctctggctc tttcttcagc cactttctca gctcctgcag gttctggtct gagtagtcag 60  
tgacgacgat ctcttaaaag gattcacaag cagagaggag ctgatagata gtggggccag 120  
agccgatgtc aatcagcagg tctcccttca caccgtctag gcagaatata ttgaaaagat 180  
ttttcagaag gtgcttaaga atctggcttt ctgcagagtg cctagaacca aacttgtaat 240  
atTTTTctag gtaatcccga gggttaaaat ggcttagata ggtgtccttg gaggtgaagc 300  
ctgattccat tatgtctcac ttccgtacca ctggagcact gccctccttc tctttctctc 360  
ag 362

<210> 1168  
<211> 459  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 370, 382, 406  
<223> n = A,T,C or G

<400> 1168  
gcagtcatgg ggcccaggac catgccactg gccctgctcc cccagccgca gcctcacctg 60  
cagggtgctcc tcgatgtcct tgcggtcgta ggtgatgcca ctgggcgtga tgcacggctc 120

```
<210> 1169
<211> 386
<212> DNA
<213> Homo sapiens
```

```
<210> 1170
<211> 480
<212> DNA
<213> Homo sapiens
```

```
<210> 1171
<211> 317
<212> DNA
<213> Homo sapiens
```

```
<210> 1172
<211> 202
<212> DNA
<213> Homo sapiens
```

<220>  
 <221> misc\_feature  
 <222> 32, 62, 70, 71, 77, 90, 111  
 <223> n = A,T,C or G

<400> 1172  
 ggcaacggga ggaacagcag cagaggcagc angagcagga ggagcgtgaa cgagaagagc 60  
 ancggcgatn ngctgcnctc agtgacogan agaagagagc tctggctgca nagcgccgac 120  
 tcgtgcccc gttgggagcc cctacctctc caatccctga ctctgcaatc gtcaatactc 180  
 gacgctgctg gagttgtggg gc 202

<210> 1173  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<400> 1173  
 ctgcctgggt tgtggccgcc ctagcatcct gtatgccac agctactgga atccccgctg 60  
 ctgctccagg ccaagcttct ggttgattaa tgagggcagtg ggggtggctcc tcaagacctt 120  
 cccctacctt ttgtggaacc agtgatgcct caaagacagt gtccctcca cag 173

<210> 1174  
 <211> 301  
 <212> DNA  
 <213> Homo sapiens

<400> 1174  
 ccaagagcta caatgggcag cgcacagac agaacgtgca ggtttttgag ttccagttga 60  
 ctgcggagga catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg 120  
 atagtatttc tagccacctt aattatccat attcagatga atattaacat ggagagcttt 180  
 gcctgatgtc taccagaagc cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg 240  
 gtgactggac atatcacctc tacttaaata cgtcctgttt agcgacttca gtcaactaca 300  
 g 301

<210> 1175  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<400> 1175  
 cctgcagggc tcggccgtag gagaagggtca gggcccaggg cttcagcagg gggcacttgt 60  
 taatggcatt gaggttgatg gacgcctcct cctcactctg gcctccagac aggaagggtga 120  
 tcccagtgac agcggggggc actgtgcggc gcagcgtgtg gacggtcgcc atggcaatct 180  
 cctcatgaga aaacttctga gtgcaagcat ggccctgggtg gaccatgttg ggcttcagca 240  
 aggtgccttc caggtagatg tgggtggtcac tcagagcctt gtagacagca gccagcacct 300  
 tctcgtcac atactggcag cgcttcaagt catggtcccc atcagggagg atctcaggct 360  
 ccacgatggg cacaatgcca ttctgctggc agatactggc ataacgggac agaacatttg 420  
 cattttccat gatggcgagg gctgaggggg tgtgttcccc aatcttcagc acacaacgcc 480  
 acttggcgaa gtcagctccg tccttcttgt actgggcaca gcgctcagac agcccat 537

<210> 1176  
 <211> 384  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 268, 285, 334, 360, 361, 368

<223> n = A,T,C or G

<400> 1176

```
ctgacaaaaa atgtgaaatt tccacaaaat atccaactta tgtgactaaa cgcagtagtt 60
tttttaaaag gggagataga aaataaatgg ttttgttgga gtgcatttta gtaagccttt 120
gcagtaaaat gacggttgta actactaaac caaatttagt tttcacagca tggttttggt 180
gttttccctt tgtttttcag aggtaaattt tgcattatat ccttcagtat ttttaacta 240
ttttggcagt ttacacatta ctttttgntt ttccttcctt tttgngaaat gtattaagtt 300
gtggttctta ttgaaacagt attatataat gttngcttaa ttatatcatg tgatgctcan 360
ntctattntg atttattcat tagt                                     384
```

<210> 1177

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 492, 541, 550

<223> n = A,T,C or G

<400> 1177

```
ccaacaacat gcaggaagct cagagtatcg atgaaatcta caaatacgac aagaaacagc 60
agcaagaaat cctggcggcg aagccctggg ctaaggatca ccattacttt aagtactgca 120
aaatctcagc attggctctg ctgaagatgg tgatgcatgc cagatcgga ggcaacttgg 180
aagtgatggg tctgatgcta ggaaagggtg atggtgaaac catgatcatt atggacagtt 240
ttgctttgcc tgtggagggc actgaaaccc gagtaaagtc tcaggctgct gcatatgaat 300
acatggctgc atacatagaa aatgcaaaac aggttgcccg ccttgaaaat gcaatcgggt 360
ggtatcatag ccaccctggc tatggctgct ggctttctgg gattgatggt agtactcaga 420
tgctcaatca gcagttccag gaaccatttg tagcagtggt gattgatcca acaagaacaa 480
tatccgcagg gnaaagtga tcttggcgcc tttaggacat acccaaaggg ctacaaacct 540
nctgatgaan gaccttctga gt                                     562
```

<210> 1178

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 117

<223> n = A,T,C or G

<400> 1178

```
cgcgtctgga tggccgaatc attcgcacag actgggacgc aggctttaag gagggcaggc 60
aatacggccg tgggcgatct gggggccagg ttcgggatga gtatcggcag gactacnatg 120
ctgggagagg aggctatgga aaactggcac agaaccagtg agtggtgaga gctctgtcag 180
tgacaaacac tcctttggcc tgttgaattt gctgaagaac atcacctaaa gtctgcacac 240
gagccattt ttaccaagat ttgatcagtg tctttactga gctggaagcc tctgaaagtt 300
```

1176-1178 Homo sapiens

attaaaggac agaatccaaa agaatgcctt taattcttgt ctgagaatct tgg 353

<210> 1179

<211> 288

<212> DNA

<213> Homo sapiens

<400> 1179

```
ccaatgggat cctcaagggt cctgccatca atgtcaatga ctccgtcacc aagagcaagt 60
ttgacaacct ctatggctgc cgggagtcct tcatagatgg catcaagcgg gccacagatg 120
tgatgattgc cggcaaggta gcggtggttag caggctatgg tgatgtgggc aagggctgtg 180
cccaggccct gcgggggttc ggagcccgcg tcatcatcac cgaggttgac cccatcaacg 240
cactgcaggc tgccatggag ggctatgagg tgaccacat ggatgagg 288
```

<210> 1180

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1180

```
ctggagagat ggagcgggtg gcaccgtcat ccttcctcat cagccacata gaaggacagt 60
ggcgatttca gccagcttt tctgactgct tgtaaattga agcccagaac tggtttgcca 120
cctgtgggat cgactcagca ttttaaaata ggaggcagtc gtgagtgcag gtttcttgca 180
gctccgggtg gccctgggct ccaggtcagg agacctcagc tcctgtccct gatctgtggt 240
tgtcaagcct tgcagactct aaactcagca tctttatctg tcagacgtag acacgtggct 300
cccggtggtt gtgcggttg aatagctgag gtaatacacg gacctccaag cactagagca 360
gtatgaggag ttctgaggaa tggttatcct gcgggtgcctg tgggccacag caagccattc 420
ttatcccatc cggtttactt cccacagcca ctttgtaagc ataggcatta tcctctaccc 480
catcatagaa atgaggaaaa gaatcaccaa gagagtaagc agc 523
```

<210> 1181

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 438, 479

<223> n = A,T,C or G

<400> 1181

```
cacagatgaa ggctttgtga tacctgatga agggggccca caggaggagc aagaagagta 60
ttaacagcct ggaccagcag agtaacatcg gaattcttca ctccaaatca tgtgcttaac 120
tgtaaaatac tcccttttgt tacccttaga ggactcactg gtttcttttc ataagcaaaa 180
agtacctctt cttaaagtgc actttgcgga cgtttcactc cttttccaat aagtttgagt 240
taggagcttt taccttgtag cagagcagta ttaacaccta gttgggtcac ctggaaaaca 300
gagaggctga ccgtggggct caccatgcgg atgcgggtca cactgaatgc tggagagatg 360
ttatgtaata tgctgagggt ggcacctcag tggagaaatg taaagactga attgaatttt 420
aagctaattg gaaatcanag aatgttgtaa taagtaaagc ccttaagagt atttaaaaana 480
tgcttccaca ttt 493
```

<210> 1182

<211> 329

<212> DNA

<213> Homo sapiens

<400> 1182

```

cgcgtctctg acactgtgat catgataggg gttcaaacag aaagtgcctg ggccctcctt 60
ctaagtcttg ttaccaaaaa aaggaaaaag aaaagatctt ctcagttaca aattctggga 120
agggagacta tacctggctc ttgccctaag tgagaggtct tccctcccgc accaaaaaat 180
agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
ggcctcattt cccaggtgcc ttcaatgctc atcaaaacca ggcattggga aggccctggc 300
aaactgctcc acccgttgcc tgaggttgg 329

```

<210> 1183

<211> 198

<212> DNA

<213> Homo sapiens

<400> 1183

```

cctgacagac agaagggctt ggagattttt tttctttaca attcagtctt cagcaacttg 60
agagctttct tcatgttgct aagcaacaga gctgtatctg caggttcgta agcatagaga 120
cgatttgaat atcttccagt gatatcggct ctaactgtca gagatgggtc aacaaacata 180
atcctgggga catactgg 198

```

<210> 1184

<211> 224

<212> DNA

<213> Homo sapiens

<400> 1184

```

ctggaggtgc ctcagaaggt gcattctgct tcttgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180
acgtactcct cagcagagct ggaggacagc aaggccagga ccag 224

```

<210> 1185

<211> 367

<212> DNA

<213> Homo sapiens

<400> 1185

```

ccttttacag atgtcagctt tcaactggcct ccatgcacaa cctcccacta ccaccaatc 60
tgctgccac agcaaagtgc aggcaccctg ggccccctgg aggatgcggg caggggctac 120
agggcatcca ggatgtggct gatcttggtg accagctcct ggcgctttcc tgagatgagc 180
ttctcattct caatgtacgt gtctttcttg agcttgccag ccaccaggcg ctcagcctcc 240
accgcgact tcagcaccag ctcttgacc tgtgcatcca gcttctgcat ttcgctcact 300
ctgtcgaca gatcagagcc ctctgtcttc agcctggact gcagcagtg c aatctcactg 360
gtcaagg 367

```

<210> 1186

<211> 188

<212> DNA

<213> Homo sapiens

<400> 1186

```

ccattaagcg gatgctggag atgggagcta tcaagaacct cacgtccttc cgacctgggc 60
aagagctgta gcctgtcggt tgcctactct gctgtctggg tgaccccat gcgtggctgt 120

```

```
<210> 1190
<211> 173
<212> DNA
<213> Homo sapiens
```

<400> 1190  
ccaggtactg gcacatcatg ctctggatgg ggggtggtggt gtcctgtagg cagagaaaca 60  
ggaaattgtc gtagtcagta tcgagcagcg tggcctcggt cgccaccgta tagttgatct 120  
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173

<210> 1191  
<211> 341  
<212> DNA  
<213> Homo sapiens

<400> 1191  
cctcctgcc a gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtatttctc 60  
agttgcagca ctgagtgggc aaaatacatt tctgggccac ctcagggac ccatgcatct 120  
gcctggcatt taggcagcag agcccctgac cgtcccccac agggctctgc ctcacgtcct 180  
catctcattt ggctgtgtaa agaaatggga aaaggga aaa ggagagagca attgaggcag 240  
ttgaccatat tcagttttat ttattttatt ttaatttggt cttttctcca agtccaccag 300  
tctctgaaat tagaacagta ggcgggatga gataatcagg a 341

<210> 1192  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 1192  
ttggagggtg gcggcgcggg gctgaaggct agcaaaccga gcgatcatgt cgcacaaaaca 60  
aatttactat tcggacaaaat acgacgacga ggagtttgag tatcgacatg tcatgctgcc 120  
caaggacata gccaaagctgg tccctaaaaac ccatctgatg tctgaatctg aatggaggaa 180  
tcttggcggt cagcagagtc agggatgggt ccattatatg atccatgaac cagaacctca 240  
catcttgctg ttccggcgcc cactacccaa gaaaccaaag aaatgaagct ggcaagctac 300  
ttttcagcct caagctttac acag 324

<210> 1193  
<211> 521  
<212> DNA  
<213> Homo sapiens

<400> 1193  
ctgctttggt ttctgttggc agtggaggga caaggtgaga ggagccaggg gtagtcatga 60  
acaccagtgg gttctgccct gggcagctcc ccaccttctt taagagagta ctgtgtctca 120  
gctccagcag tctcaactgg gaagaccag gactcctgct cttttctcta atccctggga 180  
gacgaggtcc agctaaggta gagtaagcag tcagtgaacca ggcaggctgg tttgggaggt 240  
cactgcctgg aggacgggat cttgtattct tcggaagatg gctgggaaat tcttcctcc 300  
attacgtaga actttcttcc cctcctcagt tgaggtgcct agatgtccca caacgggggc 360  
ttcactcagg tctccagag gcacacgctc aaacagtggg tgctcttcga aatgagtga 420  
catccagtcg ttagctcca gcacatcggt tatggtatac accagcccct gcataggcaa 480  
aatcacccta gacaggaggc tgcatgcaac gtcagcagcc a 521

<210> 1194  
<211> 208  
<212> DNA  
<213> Homo sapiens

<400> 1194



ccagtgacta gaaggcgagg cgccgcggga ccatggcggc ggcggcggac gagcggagtc 60  
 cagaggacgg agaagacgag ggagaggagg agcagttggt tctggtggaa ttatcaggaa 120  
 ttattgattc agacttcctc tcaaaatgtg aaaataaatg caagggtttg ggcattgaca 180  
 ctgagaggcc cattctgcaa gtggacag 208

<210> 1195  
 <211> 499  
 <212> DNA  
 <213> Homo sapiens

<400> 1195  
 ccagaaagga aagacaataa ttttggtttt tcattttgaa aaaattaaat gctctctcct 60  
 aaagattcct cacctacttt ggtctccata acttctatgt tttctttcct tctgacacac 120  
 tagtgcccct aaattgtgat ttgcctatac gtttagggcc ggggttgaa gatgtaaca 180  
 accatttaag attcatttct gcagtgggag tgggtggagt ttcaccctct gggaaagggg 240  
 caggtgacag gtatttatca gtcagtgcct ctctagctct tgtaggaaga agcacacgca 300  
 ggatggagtc tagaggatga gcgatattga ctagcaattc atgggctccc tccagcagtg 360  
 cgagggtcag agtttctgga gccttgggag gaggcatccc tgtgaggggg ggtagggag 420  
 atgggagggc accaggaaaa gtgattagaa gtcaggatg ggaaggctaa attaggacag 480  
 agtcgagtac atctctgct 499

<210> 1196  
 <211> 455  
 <212> DNA  
 <213> Homo sapiens

<400> 1196  
 ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60  
 acaagacaac ctgaagctaa atggatgccc cctgcagagt caacaggtcc agcctcacag 120  
 tgcacgccct gagctacagc ctctcccaaa aggcattctt cccacagcct caacgccgag 180  
 caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240  
 cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300  
 agaaaatgcc agaaacatct ttaaatgcct tgtcacacca acagcaaagt gcacagagtg 360  
 aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caacttcgat 420  
 acagtttcag ggtgctccag acacccatgg acctg 455

<210> 1197  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<400> 1197  
 cctggatgtg gctcttcgca ctgaaggcca agtagtagat cacaaggccg atcgccgcag 60  
 ccagcacctc agtggacacc cagggcccgt tccaagtgcc ccgatgggtcc acgtgactg 120  
 taaacagagg cgggatgatg gaaatgtcct cgttattcct ctgagccttc ctgaggaggc 180  
 tgtaggactc ctgctcgaag aatctaacct cataggtgcc tgcgtgggag ctcttgtggt 240  
 tcaggcttca ggacacctga taacgccccca catcctggcc tcgagtgaca gggaattgtt 300  
 ttccaccgac gtcagcatag agagccatgt tctggaccct gttcttgcag gtcagggaga 360  
 tctccacaat gaagacggtc tcagtggaaa tgacagcgtc agaagtgggt tagtaggaag 420  
 gggatgatctg gggctccagg cagg 444

<210> 1198  
 <211> 450  
 <212> DNA

```
<210> 1202
<211> 325
<212> DNA
<213> Homo sapiens
```

<400> 1202  
 ctgaacctgc gggagtcggc caccatcacg tgcctggtga cgggcttctc tcccgcggac 60  
 gtcttcgtgc agtggatgca gagggggcag cccttgctcc cgagaagta tgtgaccagc 120  
 gccccaatgc ctgagcccca ggccccaggc cggctacttcg cccacagcat cctgaccgtg 180  
 tccgaagagg aatggaacac gggggagacc tacacctgcg tggtagccct tgaggccctg 240  
 cccaacaggg tcaccgagag gaccgtggac aagtccaccg gtaaaccac cctgtacaac 300  
 gtgtccctgg tcatgtccga cacag 325

<210> 1203  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<400> 1203  
 ctcaaccaca gtctgacacc agagcccact tccatcctct ctggtgtgag gcacagcgag 60  
 ggcagcatct ggaggagctc tgcagcctcc acacctacca cgacctcca gggctgggct 120  
 caggaaaaac cagccactgc tttacaggac aggggggtga agctgagccc cgcctcacac 180  
 ccacccccat gcaactcaag attggatttt acagctactt gcaattcaaa attcagaaga 240  
 ataaaaaatg ggaacataca gaactctaaa agatagacat cagaaattgt taagttaagc 300  
 tttttcaaaa aaccagcaat tccccagcgt agtcaagggt ggacactgca cgctctggca 360  
 tgatgggatg gcgaccgggc aagctttctt cctcgagatg ctctgctgct tgagagctat 420  
 tgctttgtta agatataaaa aggggtttct ttttgtcttt ctgtaagggt gacttccagc 480  
 ttttgattga aagtcctagg gtgattctat ttctgctg 518

<210> 1204  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<400> 1204  
 ggggaaagga ggtctcactg agcaccgtcc cagcatccgg acaccacagc ggcccttcgc 60  
 tccacgcaga aaaccacact tctcaaacct tcaactcaaca cttccttccc caaagccaga 120  
 agatgcacaa ggaggaacat gaggtggctg tgtggggggc acccccagc accatccttc 180  
 caaggtccac cgtgatcaac atccacagcg agacctccgt gcccgaccat gtcgtctggt 240  
 ccctgttcaa caccctcttc ttgaactggg gctgtctggg cttcatagca ttgcctact 300  
 ccgtgaagtc tagggacagg aagatgggtg gcgacgtgac cggggcccag ga 352

<210> 1205  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 1205  
 ctgttcaact tccaactcta aataggcacc attaaacaaa aaacccagc attttaaatt 60  
 tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120  
 ggaatacagc cttagaatgg aagctatatt gcttccctgc cccctttctc ttacaattgg 180  
 agagtgtagg tattaaggga taaaaagtca gaggaagaat aattaaaaag aaaaatgccc 240  
 aaagctgcag 250

<210> 1206  
 <211> 275  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature

<222> 10, 11, 13, 236, 237

<223> n = A,T,C or G

<400> 1206

```
ctgctctcgn ngnctcactg gatggaccag cacttccgca cgacgcccct ggagaagaac 60
gccccogtct tgctggccct gctgggtatc tggtagatca actgcttttg gtgtgagaca 120
cacgccatgc tgccctatga ccagtacctg caccgctttg ctgcgtactt ccagcagggc 180
gacatggagt ccaatgggaa atacatcacc aaatctggaa cccgtgtgga ccaccnnaca 240
ggccccattg tgtgggggga gccagggacc aatgg 275
```

<210> 1207

<211> 182

<212> DNA

<213> Homo sapiens

<400> 1207

```
ccatctcctg ctggaagtcc agggcgacgt agcacagctt ctccttgatg tcgcgcacga 60
tttcccgtct ggccgtgggtg gtgaagctgt agcctcgctc agtgaggatc ttcattgaggt 120
agtcggtcag gtcccgccca gccaggtcca gacgcaggat ggcgtggggg agggcgtagc 180
cc 182
```

<210> 1208

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 130, 154, 167, 176, 240

<223> n = A,T,C or G

<400> 1208

```
gctggttatg aactcctgac ctcaagtgat ctgccctcct cagcctccca aagtgctggg 60
attataggca tgagccactg gaatttttct tttttttttt ctttcttttt tttttttttt 120
ttaaattgan acaaggctctg gctctatcgc ccangctgga gtgcagnggc accatntcgg 180
ctcactgcaa cctctgcctg ctgggctcga gccatcctcc cacctcagcc tcccaagtan 240
ttgggactag aggtatgcac 260
```

<210> 1209

<211> 487

<212> DNA

<213> Homo sapiens

<400> 1209

```
aaaccactc caccttacta ccagacaacc ttagccaaac catttaccca aataaagtat 60
aggcgataga aattgaaacc tggcgcaata gatatagtag cgcaagggaa agatgaaaaa 120
ctataaccaa gcataatata gcaaggacta atccctatac cttctgcata atgaattaac 180
tagaaataac tttgcaagga gagccaaagc taagaccccc gaaaccagac gagctaccta 240
agaacagcta aaagagcaca cccgtctatg tagcaaaata gtgggaagat ttataggtag 300
aggcgacaaa cctaccgagc ctggtgatag ctggttgtcc aagatagaat cttagttcaa 360
ctttaaattt gccacagaa ccctctaaat ccccttgtaa atttaactgt tagtccaaag 420
```

```
<210> 1210
<211> 216
<212> DNA
<213> Homo sapiens
```

```
<210> 1211
<211> 443
<212> DNA
<213> Homo sapiens
```

```
<210> 1212
<211> 526
<212> DNA
<213> Homo sapiens
```

```
<210> 1213
<211> 359
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 15, 255, 258, 321, 322, 357
<223> n = A,T,C or G
```

```
<210> 1214
<211> 428
<212> DNA
<213> Homo sapiens
```

```
<210> 1215
<211> 414
<212> DNA
<213> Homo sapiens
```

```
<210> 1216
<211> 162
<212> DNA
<213> Homo sapiens
```

```
<400> 1216
cctggcgcgca ggggtcccccg gtattgctgt tgctacgagg ttgggggggca gcgattgtcc 60
tgtgggagcc accgttctcc tgggtcgggg accctcactt cttctggggg gtgctcannt 120
tctqcatgcc ccggtctttg tcacgcangc cagaaatgaa gg 162
```

<210> 1217

<211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 306  
 <223> n = A,T,C or G

<400> 1217  
 ctgaagtaga ggctggaact gaagctgaga ctgaggctga ggctgaaact ggagctaagg 60  
 gtgaggctgg aactggagct gaggttgagg ccagaactgg agctaaagtt gaggctggaa 120  
 ccggagctga ggttgaggct ggaactggag ttaaggttgc tggagtgga gctgaggttg 180  
 aggctggaac tgaagctgag gttgaagggt gaagtggagc cgaagctaga ggtggaactg 240  
 aggctgaaga ctgtgcttgc tggatccctg tagcctgttt tttggcaaat cttggaggaa 300  
 gcttanaagt ctggcttctt cctttttcat ttgcattctt tttgttccag accttaaaaa 360  
 attaacgggg accatttttg tcaataatgc ag 392

<210> 1218  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 379, 447, 470, 501  
 <223> n = A,T,C or G

<400> 1218  
 ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60  
 agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120  
 aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctg ccacccatc 180  
 atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240  
 agcttaactt aacaatttct gatgtctatc ctttagagtt ctgtatgttc ccatttttta 300  
 ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catgggggtg 360  
 ggtgtgaggc ggggctcanc ttcaaccccc tgtcctgtaa agcagtggtt ggtttttcct 420  
 gagcccagcc ctgggaggtc gtggtangtg tggaggctgc agagctcctn cagatgctgc 480  
 cctcgctgtg cctcacacca nagaggatgg aagtgggctc tggtgt 526

<210> 1219  
 <211> 382  
 <212> DNA  
 <213> Homo sapiens

<400> 1219  
 ctggccggcg gtgcagatct ggagtccagc ctgaggatg cgctactttc cattctctgc 60  
 attgaacatt cgttctgtca gcatccgctc cagcttcaact gcatcagcgg caaacttgcg 120  
 gatcccgtca gagagcttct ccacagccat ctggctcctg ttgtgcaacc aacggaaaga 180  
 cttctcatcc aggtggattt tttccaggtc actggcttgg gccgccttgg ctgagagcac 240  
 aggcaccagc ttggcgttgt cctgcagcag ctctcccagg agcttgggtg agatgggtgag 300  
 gaagtcacag ccggccagtg ctttgatctc gcccggttg cggaaggagg cgcccatgac 360  
 aatggttttg tagctaaact tc 382

<210> 1220

<211> 127  
 <212> DNA  
 <213> Homo sapiens

<400> 1220  
 tcgacctcct tgaagcagac caagtatagc aagcctctaa aaggactact gagaaacaga 60  
 atcagaaact ctagaactct agttagggcc cttcagcagg gctgcagagc ctccctggat 120  
 acccagg 127

<210> 1221  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 1221  
 ccaccccgga gatgacacga ggctcacatg actctagaca cttggtggaa agtgaggcga 60  
 gaaaaacaat gacttgggcc aattacacga ctgcaaagct agagctgccac acagggctcc 120  
 agggagcttg gcttctgtag aagttctaag gaagcggtag gaactccacg gcggtggggc 180  
 gctaactagc agggacccct gcaagtgttg gtcgggggcc tcgggctgcc tgagctgaca 240  
 cgaggggagg ggtctgtgta gccaacaggt gaccgaagg cttgcctgcc cacagcttac 300  
 ttgg 304

<210> 1222  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 1222  
 ctgtcgcact cgtagctgca actcactcaa cttgtcttta gcagcaattt ctgcatagtc 60  
 attggcatgt tcacctacct ggatgtccgg gtgaactctc agcatgcctc cagcaaagag 120  
 ggagaacttg gtggaattgg agtgaagaca gatctggtgc tcaccagggg tatgggaagt 180  
 gaaagtgaac ctgccctcgg agccatactg ccgggccagg atgaccttgt cctctgggtc 240  
 ctccacctcc acaaacatgc caagccccgg ggtggccggc tgggtactct cccgctgctt 300  
 gtcatacag 309

<210> 1223  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1223  
 cctggcctgg gagccctgtg cctactagaa gcacattaga ttatccattc actgacagaa 60  
 caggtctttt ttgggtcctt cttctccacc acgatatact tgcagtcctc cttcttgaag 120  
 attcttttggc agttgtcttt gtcataaccc acaggtgtag aaacaagggt gcaacatgaa 180  
 atctctgttt cgtagcaagt gcatgtctca cagttgtcag tctgccactc cgagtttatt 240  
 ggtgttttgt tcctttgaga tccatgcatt tcttggttga atctcctgga actccctcat 300  
 taggtatgaa atagcatgat gcattgcata aagtcacgaa ggtggcaaag atcacaacgc 360  
 tgcccaggag aacattcatt gtgataagca 390

<210> 1224  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens



<400> 1224  
 ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60  
 tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120  
 ggagacgatg tcatcatcat cggggctctt aagggggaga gtgaccagc ctaccagcaa 180  
 taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240  
 gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300  
 ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggctc caccaggac 360  
 tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg 407

<210> 1225  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 1225  
 ctgcagcttt gggcattttt ctttttaatt attcttcctc tgactttgta tcccttaata 60  
 cctacactct ccaattgtaa gagaaagggg gcagggaagc aatatagctt ccattctaag 120  
 gctgtattcc cgttatgaat tactagctga ttacagttca gagcattgat cctggaatgt 180  
 gtgctggaga aatttaaaat actgggggtt tttgtttaat ggtgcctgtt tagagttgga 240  
 agttgaacag 250

<210> 1226  
 <211> 444  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 427  
 <223> n = A,T,C or G

<400> 1226  
 cctttaggct gttgctctgg gcaggggggtg ggggtgcggg ggcttacagt gggggccctt 60  
 agttggcaca ggttcggaag ggccccaggc agacatgaat tctcctgaga cttgaggtag 120  
 gttgcttcag ccagcccggg cggagaagaa gggcagagag cgaacatagg agtccagtcg 180  
 ggagcgaaag agctcacttt gcacagtttg gccagcggg cacaggggat tcttcaccac 240  
 cagctccaca tacagcgcac tgtagatgtg gtgcagcaca tctcggatgg gtcccacgcc 300  
 caagtcagta ttcatgacaa ctttgatccc agtgggcgtc tcgtagtaat ggagtttgta 360  
 acggctagtt tggaaggcca ggaagccatc cttcatgtct agcggggaca tcttgctgac 420  
 aaacgancgg atagagaaga gcat 444

<210> 1227  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 1227  
 gttagcctta catgttgtgt agacttactt taagtttgca cccttgaaat gtgtcatatc 60  
 aatttctgga ttcataatag caagattagc aaaggataaa tgccgaaggc cacttcattc 120  
 tggacacagt tggatcaata ctgattaagt agaaaatcca agctttgctt gagaactttt 180  
 gtaacgtgga gagtaaaaag tatcggtttt attctttgct gatgtccttt ctgcttgaaa 240  
 taacagtcac catacagcta aaggagagga gtttctttcc ttctaagtag gcagaaatgg 300  
 tatcattatg ttgcgcgtct ccaatctccc agagctcgct ctctagagaa tcaccttctt 360  
 tcgctttttt tttttttttg aggtagagtc tcaactatgt gccagacta gccttgaact 420

cctgggctca agtgattctc cctcctcagc ctcccagagta gctggaacga actatagttg 480  
caccactgca g 491

<210> 1228  
<211> 279  
<212> DNA  
<213> Homo sapiens

<400> 1228  
ctgggaggat ctgatcaact aggcaacatc atgtccggat atgagttcat caacaagttg 60  
actggagaag atgtatttgg aatcacggtt cctctaatta caagtacaac tggagcaaag 120  
ctgggaaagt ctgctggcaa tgctgtttgg ctaaacagag ataagacatc tccatttgaa 180  
ttgtatcaat tctttgtcag gcaaccggac gattcagtgg aaaggtacct gaagctgttc 240  
actttcctac cccttccaga gattgatcat atcatgcag 279

<210> 1229  
<211> 199  
<212> DNA  
<213> Homo sapiens

<400> 1229  
cgcccgaggt ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg 60  
cggaagccag cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct 120  
gcaggcgcat aggtgccaaa tcccaggaca ggcatagaagt gaccatcatt cagcttcaca 180  
cactgatatt tcgaatcca 199

<210> 1230  
<211> 237  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 9, 12  
<223> n = A,T,C or G

<400> 1230  
ctgcattgnt gnggaattca caactactca ggctgggaaa atacagattg gttcaaagaa 60  
acaaaaaacc agagtgtccc tcttagctgc tgcagagaga ctgccagcaa ttgtaatggc 120  
agcctggccc acccttccga cctctatgct gaggggtgtg aggctctagt agtgaagaag 180  
ctacaagaaa tcatgatgca tgtgatctgg gccgcactgg catttgcagc tattcag 237

<210> 1231  
<211> 277  
<212> DNA  
<213> Homo sapiens

<400> 1231  
ctggagggtgc ctgagaaggt gcattctgct tcttgcaggg gcttgaaaca ccaaggcact 60  
ccagggatcc tggagtcaaa gcagcagccc cgggtgttgc actccttggg ggtgacatgg 120  
gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180  
acgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240  
gctctggcag ccatgaccac cgtgggctcc gggacgc 277

```
<400> 1235
ctgcaccttn gggcntnttt ctttttaatt attcttcctc tgactttgta tcccttaata 60
cctacactct ccaattgtaa gaggaaagggg qcagggaagc aatatancct ccattctaag 120
```

| <400> 1239  |            |            |            |            |            |     |  |
|-------------|------------|------------|------------|------------|------------|-----|--|
| ctgccagggt  | gaaaagaagc | ctcagctccc | acaccgccct | cctcacccgc | cttcctcggg | 60  |  |
| agtcaattcc  | actggtggac | cacgggcccc | cagccctgtg | tcggccttgt | ctgtctcagc | 120 |  |
| tcaaccacag  | tctgacacca | gagcccactt | ccatctcttc | tggtgtgagg | cacagcgagg | 180 |  |
| gcgacatctg  | gaggagctct | gcagcctcca | cacctaccac | gacctccagc | ggctgggctc | 240 |  |
| agcaaaaaacc | agccactgct | ttacaggaca | gggggttgaa | gctgagcccc | gcctcacacc | 300 |  |

```

caccgccatg cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
taaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattggt aagttaagct 420
ttttcaaaaa atcagcaatt cccagcgta gtcaaggggtg gacactgcac gctctggcat 480
gat 483

```

```

<210> 1240
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<400> 1240
cctttatgga tgaaagtacc cagtgccttc agaaggtgtc agtacagctc ggaaagagaa 60
gcatgcaaca attagatccc tcaccagctc gaaaactggt gaagcttcag ctacagaacc 120
cacctgccat acatggatct ggatctggat cttgtcagtg actttatgag agtttctgcc 180
acaaggtgcc caagaggaga ggaatgggaa gactgcccc gcacgtggtg actgctgat 240
ttctgctcra tgcctttmts atamstgacc acactgasgg cgaattmcag cacactggcg 300
gccgttacta gtggatccga gctcgggtacc aagcttggcg taatcatggt catagctg 358

```

```

<210> 1241
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<400> 1241
ccaaagggttc gtaatgcat ctctgcacca atctcctccc ccatagcaat aagggcaatc 60
cccagaacag ccaactccctg atgtgctccc atgtcagcag gggcttctt cttgtccttg 120
tctttctttt ccttcttgtc tttgtcttcc tcttctctt tggagtcaaa gtgttcgcta 180
caaatgtgga gcag 194

```

```

<210> 1242
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 1242
ccttgttctc actgccctct aagggaactt ggtcactcgg cacttttaag cctcagtttc 60
tccagttcaa taataaggac aagagctttt cccatgcatt ctctttccc gggaaagtgt 120
actgaggtga ccagtaatag aattgaaaag ggagagtgtc ttcagtgcaa tgtggcatcc 180
tggattgggt cttggaacaa aaacaggaca ttagtgggaa aattggaaat ctgaaaaaag 240
tctgaatttt agttaatata ccaatttcag tctcttgggt ttgacagatg taccatgggt 300
atgtaagatg ttgacc 316

```

```

<210> 1243
<211> 275
<212> DNA
<213> Homo sapiens

```

```

<400> 1243
aaaaggggtga tgaaagtatt atgtataata ttataatggt aaatatgtga tatgaatttg 60
ttgaaatcaa cagaatatac agcataaagg gttaattcca attcacaaaa atataaataa 120
ataggagatt aggaattcca ggatagaatg cagacaatat agaaaatatc taatgtcatt 180
acaaatgtat gaaatcagaa gaggtgccaa gtgacctcag aaatagtgtg gtcaataaaa 240
gaataaagaa agtgcacgtc agaactgtac cccag 275

```

```
<210> 1247
<211> 310
<212> DNA
<213> Homo sapiens
```

<400> 1247  
 catatgtgga actattcttg gaaagtctac aaagtgaat ctatcgagtt atttctcatt 60  
 tgcaaagtga tccttttgagt cttttctcat aatctataat ctgaatgtta atactgatat 120  
 ttttaaaagc cctacatccc aacagaccag gccatctaga tatttcagcg tgggtgtctca 180  
 ggatgagtaa acaaacagct aaaaatatat gacttatgta aactagagtt acaggagtta 240  
 ctagcttttc tgaaagggat atattctaag ttttttttct taaaaaaaaa aaaarggggg 300  
 gggggggggtt 310

<210> 1248  
 <211> 640  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 604  
 <223> n = A,T,C or G

<400> 1248  
 aaagatataa aactatggag aaaactgcta aagggtatcc ctgaccttta tgatgatgca 60  
 gctattttcg aggccaaaaa atcatttttac tgggcaagaa aaacatctca ttcctttgtc 120  
 gtgaatatcc ttgctcaggc tctttatgaa ttattttctg ccacagatga ttccctgcat 180  
 caactaagaa aagcctgttt tctttatttc aaacttgggtg gcgaatgtgt tgcggtcct 240  
 gttgggctgc tttctgtatt gtctcctaac cctctagttt taattggaca cttctttgct 300  
 gttgcaatct atgccgtgta tttttgcttt aagtcagaac cttggattac aaaacctcga 360  
 gcccttctca gtagtggtgc tgtattgtac aaagcgtggt ctgtaatatt tcctctaatt 420  
 tactcagaaa tgaagtatat ggttcattaa gcttaaaggg gaaccatttg tgaatgaata 480  
 tttggaactt accaagtcct aagagacttt tggaagagga tatatatagc atagtaccat 540  
 accacttata aagtggaaac tcttggaacca agatttggtat taatttgttt ttgaagtttt 600  
 tggnatataa atatgtaaat acatgcttta attgcaattt 640

<210> 1249  
 <211> 1108  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 527  
 <223> n = A,T,C or G

<400> 1249  
 caaaataaat ttcaattcaa tgaaaagtaa ataacttagg gatctataaa tgacactgca 60  
 atgtatcttg ttccattttt aacaggaagt ctttcatgca aatgtgtgag tctcccagga 120  
 tgcataagc tccagccttt tcgtggtgac tcaatagagc aattgtacct tacaaatktg 180  
 caaccacctc cctgaaagtc ttctcccacg ttattaagtg caatgyttat ggtaaagtga 240  
 gaagcatcat gatgaggacg aagagaacgc tctcgttcag gggagtattt tactacaaaa 300  
 ttcagtagtg caaatccctt cgtataatag cctgcaaaga ctttcagtgt aactgggtgca 360  
 atgaactccc ggataaaatg aagccatata ttctccagat caacttgctt catgtggata 420  
 tcatcagttg ggacattttt ataaccacca gatatacggc tatcatgatg tttttcccca 480  
 gaccatttgc cgtaatgttc catttcttct accaattcat cacaggncct tttcagaaaa 540  
 tatggggaac cmaaaagaca tctggacagg gctgttcaam ctatatattc agtgaaaatc 600  
 tttgaataat ccmcggttta tatacttttc cttccagtcc acaggatttt caaaaatctg 660

```
<210> 1250
<211> 567
<212> DNA
<213> Homo sapiens
```

```
<210> 1251
<211> 655
<212> DNA
<213> Homo sapiens
```

| <400> 1251  |             |            |            |             |             |     |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| gaaagaaacc  | aattttaatgc | caccaaacat | aagcctgcta | tacctgggaa  | acaaaaaatc  | 60  |
| tcacacctaa  | attctagcag  | agtaaacgat | tccaactaga | atgtactgta  | tatccatatg  | 120 |
| gcacattttat | gacttttgtaa | tatgtaattc | ataatacagg | nttaagggtgt | gtggnatgga  | 180 |
| gctaggaaaa  | ccnaaggagn  | aggaaattat | nnaaaagaac | tgnaggtnaa  | gtataaaagtc | 240 |
| atatgcctga  | tttcctcaaa  | ccttttggtt | ttcctcatgg | cttctggcct  | tatatttttta | 300 |
| tcacaaacca  | agatctaaca  | gggntccttc | tagaggatta | ttagataagt  | aacacttgat  | 360 |
| cattaagcac  | ggatcatgcc  | actcattcat | gggtgntcta | tgttccatga  | actctaatag  | 420 |
| cccaacttat  | acatggcact  | ccaaggggat | gcttcagcca | gaaagtaaaag | ggctgaaaaa  | 480 |
| gtagaacaat  | acaaaagccc  | tcgtgtgggg | ggaactgnng | gctcactctt  | acttggcctt  | 540 |
| cattcnaaac  | aggttgggnc  | tttctgtcga | ngatctctca | ggngngtaaa  | aactttntgg  | 600 |
| ntttcaacan  | aanaggtttg  | qntgaatgat | tactcggcng | acacctaagg  | gatcc       | 655 |

```
<210> 1252
<211> 672
<212> DNA
<213> Homo sapiens
```



<220>  
 <221> misc\_feature  
 <222> 4, 653  
 <223> n = A,T,C or G

<400> 1252  
 aaantgcaaa aacccagaag accaataatt ctgaaacttg gcatgagtgt gcccagtcag 60  
 cagcttgcaa agagaggatg tgtcagttac tacaattgct gtactccttt agctgagtc 120  
 ttcaactttc tccttcttgc cagtaaatac tacgttgtaa ttcataatgac tgagatctta 180  
 gtatcacagg attttttagct cccatgcctc cttcaaaatt gtttacatgg atttgtttct 240  
 attctctgta ggccatatcc caaacacatt cacttctaaa tccaacacaa gtgaaggacc 300  
 agccaggatg aaacacttca gcaatcattt tggtaaaaat aacatcctgg tcatcaagct 360  
 aagcataagc acctcttgta taacaattca tcttaaaagc ttaaagtaca ataataaaaa 420  
 taactgcctg aaaactggaa atgaaatata acagaaaaac tgaagcatta gtaatttttg 480  
 caagtaacc aggtacagta catttgattt catagagggt gttttctgat gtttaaggag 540  
 agggtagaag gggtaggaaa acttggcaag gaagatggaa acagcacaac cagttatttt 600  
 gcttttaata aagtaaattgt aatgacagga gtagggagggt gacaaacaca tcnatatata 660  
 tttttcttat gg 672

<210> 1253  
 <211> 644  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 578, 582  
 <223> n = A,T,C or G

<400> 1253  
 ccaaataattt gttagaaact tctggtaact tagatggctt ggaatacaag ttacatgatt 60  
 ttggctacag aggagtctct tcccaagaga ctgctggcat aggagcatct gctcacttgg 120  
 ttaacttcaa aggaacagat acagtagcag gacttgctct aattaaaaaa tattatggaa 180  
 cgaaagatcc tgttccaggc tattctgttc cagcagcaga acacagtacc ataacagctt 240  
 gggggaaaga ccatgaaaaa gatgcttttg aacatattgt aacacagttt tcatcagtcg 300  
 ctgtatctgt ggtcagcgat agctatgaca ttataatgc gtgtgagaaa tatgggggtga 360  
 agatctaaga catttaatag tatcgagaag tacacagaca ccactaataa tcagacctga 420  
 ttctggaaac cctcttgaca ctgtgttaaa ggttttggag attttaggta agaagtttcc 480  
 tgttactgag aactcaaagg gttacaagtt gctgcccacc ttatcttaga gttattcaag 540  
 gggatggagt agatattaat accttacaaa gagattgnag anggcattgaa acaaaaaatg 600  
 yggactattg aaaatattgc cttcgttctg gcggagggtt gctc 644

<210> 1254  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<400> 1254  
 aaagggcatt tgaggggagg attattgcta tgaatgaaaa aaatatttta gcttagacta 60  
 agctacctgc cttcaaaata gtttagggac caccaccata ttttattttg tttttatttt 120  
 tgaacatttt tctaattgatt tggagagaaa actatttaca aaaattccac atatcagtga 180  
 tacaatttct tgctgtcacc aattttttat aatagcagag tggcctgttc taagaaggcc 240  
 atatttttta agttatcttt cagggttaaca tggaaatact ataaagttgg atgtcaaact 300

```
<210> 1255
<211> 519
<212> DNA
<213> Homo sapiens
```

```
<210> 1256
<211> 178
<212> DNA
<213> Homo sapiens
```

```
<210> 1257
<211> 255
<212> DNA
<213> Homo sapiens
```

```
<210> 1258
<211> 630
<212> DNA
<213> Homo sapiens
```

| <400> 1258 |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aaaactaaaa | gcatcactgc | tgaactccag | ctcagtcttc | ccattttata | atgaggactc | 60  |
| tgaagtttat | agaggtcaag | gacttgtcca | aagctttaga | tatgtagtgt | ctgtgcctt  | 120 |
| ttcctctaag | tttctcctag | agaatgtggg | ggctcaggaa | cagagaaaa  | aaggtgcaa  | 180 |
| aagttagaa  | gggtgtgtt  | tctcaaagt  | tggctcact  | gcatactagt | gactgggtg  | 240 |
| cttgtaaaa  | tgcagattgc | tgggccttat | ccaatctga  | ccaatcctc  | tcaggatcta | 300 |
| ccttttgaac | aaacttgct  | aggtcaaatt | cactcttg   | gaagttaag  | tacttcagaa | 360 |

```

acaagacagc cacagaaggt gcacctgcta atttggtggc ttccagtgcc tcatctgtaa 420
cttctggtga aatcctgaga tgtcttactt tacattgttt acatcccata acattccaac 480
athtagaaat tcaactgagc ttatttttct tacttgttta gcactaaatg aaaatagctc 540
cctgaagtta aggagtttat atacagtaat tcatgcaagt gtgtaaatta aacagatgac 600
tttccccct aatatctaata gcacagcaag 630

```

```

<210> 1259
<211> 159
<212> DNA
<213> Homo sapiens

```

```

<400> 1259
aaaatttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata 60
caactttcag gccacagttt tgaaggctct aagtattaag ttggtttgat gaattagtcg 120
gttggcactt acgaacacat ttattgcctt gccatcttt 159

```

```

<210> 1260
<211> 115
<212> DNA
<213> Homo sapiens

```

```

<400> 1260
aaaaatacta taatttcaaa acttccaaat ttcaacagat gccagtgttc tctccttttt 60
tcatatggga aaatttcttt caaaattatt tgacgcttgg acaaaaattc cacag 115

```

```

<210> 1261
<211> 280
<212> DNA
<213> Homo sapiens

```

```

<400> 1261
aaaatattgt ttatctttat ttattttgtg gtaatatagt aagttttttt agaagacaat 60
tttcataact tgataaatta tagttttgtt tgttagaaaa gttgctctta aaagatgtaa 120
atagatgaca aacgatgtaa ataattttgt aagaggcctc aaaatgttta tacgtggaaa 180
cacacctaca tgaaaagcag aaatcggttg ctgttttgc tctttttccc tcttattttt 240
gtattgtggt catttcctat gcaaataatg gagcaaacag 280

```

```

<210> 1262
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 1262
aaattatttg atgagttcca cttgtatcat ggccatcccg aggagaagag gagtttgtaa 60
actgggccta tgtagtagcc tcattttacca tcgwtgtgat tactgaccac atatgcttgt 120
cactgggaaa gaagcctggt tcag 144

```

```

<210> 1263
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 1263
aaacatcttg ataatttggt gttgagagct gttcattcta aaatgtaatg aaattcagtc 60

```

```

tagttctgct gataaagatc atcagttttg aaagggttact gattttcctc ttccctctta 120
gttttttacc caatatatgg agaagagtaa tgggtcaatct taacattttg ttttaattgt 180
ttaataaagc tgctgggcag tgggtgcagca ttctaccta gtgtcataaa agcaaaatac 240
ttacatagct ttcttaaaat ataggaatga cattacattt ttaggagaaa gtaagttgct 300
ttgcaccgcc tacttaattc ttttccatat attgtgatac aaacttttga atatggaatc 360
ttactatttg aatagaaatg tgtatgtata atatacatat atacataagc atatatgtgt 420
gtgtgtgtgt gtatatatat atatatgcat gctgtgaaac ttgactacac aacataaatc 480
acttttt 487

```

<210> 1264

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1264

```

ctgcttcaac agagtggcag caaccaagct ggagtccaag cccctgata aaaggcagcc 60
aatccttctg tctgtcatca aacgtttctt tacagcatta ttaaaaagga tcctgaggtt 120
gttcttcaca gtttctatct caaaacctgg aaagagtttc tccacattgt catagagggc 180
gtgcaggggt tcatcccgac agtgatgata ttttaaccatt tccacggatg caactttgcc 240
atttggttt 250

```

<210> 1265

<211> 394

<212> DNA

<213> Homo sapiens

<400> 1265

```

aaatatttgt tccaaccttt ttcgttggtg gcattttatgg ctttggagca ctgtcaggcc 60
catgttcatt accgtgagct cctgtgcac tcttaatttc caaactagcc tggaaaacgc 120
ctccattgac catgattggt tcatggtcct gtgcatggaa catcatatgt tcaggagat 180
aaagaactct gatagtggca cctgggtaaa aagtacaatc cattatatct ggatatcaag 240
atcttttgca gttgaagaga ggtattgcc cagagaaaat tataggagca gaagaaagtc 300
aatgaaagtc aatgatgaca ctccattagg aaccagaaag atggtattta tttatacata 360
taataggtgt aagagattag aggaagcctg tcac 394

```

<210> 1266

<211> 229

<212> DNA

<213> Homo sapiens

<400> 1266

```

ccacagttgt atcatatagc atctctaaca tttcatctag gattatctag tatagatctt 60
actatatattg gggctatgtt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcc 229

```

<210> 1267

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 658

<223> n = A,T,C or G

<400> 1267

```

aaatcttata aacttttccaa attttcatat taaaatatat tattgtatta atacaaacta 60
cagtattata cactacactg tgtaataaat aaagaaatat aaaaataaga cacataaata 120
taaaagtttt ctaaaactaa aagtacatat gtcagtaaga agggatttaa tactgccagg 180
tttgaagaca tacagtacaa aaatgttgca cagatctata aactaaaaga aataaaataa 240
tactgatagg taaaaatcag ctaatgttgt taataaattg ggtccataat aactaacatt 300
tggaacacagt tatgagccaa ataacaatag catgtccatg tctgaaatgc aagtacatgg 360
ataaagcaga ttagaaaatt tccctttcgt ttctgtagag aaattctgaa aatcaatcaa 420
cataaaatca ataccgagga attgaaggat gaaatgtccc agtgtttcag tttctctgac 480
agagtcagtg gttttaagtt ttatttgagg attttgatac aagagacaaa tcaacaaatg 540
ctagttattg taggccacac attggatgaa ggcgggtag agccttgaaa atactgagaa 600
atggcactta cagcacacag gtcttgctta agggcaaagg agatacaaaag cttcatgnca 660
tattcttcat atggtaccac atattcaaac accatcccaa cactgatctg atgattttgc 720
tg 722

```

<210> 1268

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1268

```

gatgacacaa gcagctaata accattttctg ggtttctgcc taacccctta attgtctgtt 60
aaagccaatt ctctgggtgt cccagttagt ggtggctttt tttctttcca cattggcaca 120
ttcactttct ccaactcttg catgtaagaa ataagcattt acataattgg aaaaatctgg 180
atttctgatg ccaaagggtt aaagcttctt ggatttcatt tcattgatat acagccacta 240
ttttattttt gatcagtggc ctttgggcca ctgttcaggg tactgaccat cagtgtcagc 300
attagggttt tgggttttgt ttcttttggt tatttctttt ttggcacatg tgaatcttgt 360
tttgtgtaaa atgaaattac tttctcttgt tctctgatga tgggttt 407

```

<210> 1269

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 613, 629, 643

<223> n = A,T,C or G

<400> 1269

```

ctgaaaaaga gtgacctca atatcctaac taactggtcc tcaactcaag cagagtttct 60
tactctggc actgtgatca tgaaacttag tagaggggat tgtgtgtatt ttatacaaat 120
ttaatacaat gtcttacatt gataaaattc ttaaagagca aaactgcatt ttatttctgc 180
atccacattc caatcatatt agaactaaga tatttatcta tgaagatata aatgggtgcag 240
agagactttc atctgtggat tgcgttggtt cttagggttc ctagactga tgcctgcaca 300
agcatgtgat atgtgaaata aaatggattc ttctatagct aaatgagttc cctctgggga 360
gagttctggt actgcaatca caatgccaga tgggtgtttat gggctatttg tgtaagtaag 420
tggttaagatg ctatgaagta agtgtgtttg ttttcatctt atggaaactc ttgatgcag 480
tgcttttgta tggaataaat tttggtgcaa tatgatgtca ttcaactttg cattgaattg 540
aaattttggg tggatttata tgtattatac cctgtcacgc ttctagtgtc ttcaaccatt 600
tataccattt tgnacatatt tttacttgna aatatttacc tgncccggcc ggccgtcgaa 660
agggcgaaat tcaac 675

```

<210> 1270  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 1270  
 ccacccctggg cggagctaaa gttgcagaca agatccagct catcaataat atgctggaca 60  
 aagtcaatga gatgattatt ggtggtggaa tggcttttac cttccttaag gtgctcaaca 120  
 acatggagat tggcacttct ctgtttgatg aagagggagc caagattgtc aaagacctaa 180  
 tgtccaaagc tgagaagaat ggtgtgaaga ttaccttgcc tgttgacttt gtcactgctg 240  
 acaagtttga tgagaatgcc aagactgg 268

<210> 1271  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<400> 1271  
 cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60  
 ttgatgactt ccgagaagca tattattggc ttcgtcataa tactccagag gatgcgaagg 120  
 tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180  
 tggacaataa cacatggaat aataccata tttctcgagt agggcaggca atggcgctcca 240  
 cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggctcattt 300  
 ttggagg 307

<210> 1272  
 <211> 798  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 613, 619, 703, 726, 773  
 <223> n = A,T,C or G

<400> 1272  
 ccattgctag aaattgaatc acaaataata gctaataatt tttcattttt caaaaaagat 60  
 catttgata gcagctatgt ataaaatgga aaataaaaaa ttattctatt ttgcatgaat 120  
 agttcagact ttcccatacc acagccaagc agtaactaaa attaggatct taattttcaa 180  
 tgataaaaagg tctaagggtc atttaattat gtccttttaa cactgtcttt ctagattttt 240  
 caccagtat tttcaaaatt tgggaatgta aacaattgat atatttattg tatgttggct 300  
 agcagttcat ctttctgcaa aatatgcatt cagagaaatg tgaagcttgt tttaatgaag 360  
 acttaaacca tttgtgtcat ttgtgttttc atattcaaat acaccaaatt aaaattctga 420  
 acctatattt ttcatcatta acttccta ataccagaac atataccttt ttcatgtaaa 480  
 gttggcaatg ggatatggca gttttatttt tgaaaaatat gtaacatgac tttaatattt 540  
 ttatagtttt cagaattaga aacataggaa gggaaaatgt ttttaattaga taagtcaact 600  
 ttttatgggc tgnagtggng actataatag caaattataa agcattatta aatgggtata 660  
 ataattttta tattacctca ttatgaatta actaaaataa agnggagtga tatttttaaa 720  
 ggggtntcat actggagctc ctgagatata tgatttgcta ttgactcact ggntgattga 780  
 ataatatatt actcgagg 798

<210> 1273  
 <211> 664

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 623  
<223> n = A,T,C or G

<400> 1273  
 aaaatatacc ttttcacagg tagcaagaaa tagtacatgt aataagtctt tatgactgga 60  
 atgatccaga aatatcacaa agcatgagta aacacatata taaaagtagc tcatcatttc 120  
 caaaagttaa ccttttagcct ttgtgtaaaa taaatggtgc caacaatctt tataatgtag 180  
 caagctttcc ctgtttaata tccaaaaaat ggagggtggg gaggttgaag aaaaataaga 240  
 aaagttagca aataagatag tgaaaagacc aatgcagaga aaagtttatg taatcaaact 300  
 ttgctttgtc tccacattat cacattttta gtggataaat ttatgtaaac agaaaaagat 360  
 gtccacaaaa ccatatctat agatgtcatt tggaagcatc aagaaattga taagtatgtg 420  
 gtgaattaaa attactttta taatgttttg ctttcattaa tgtttgttat tgcaaaaatg 480  
 taagatttcc tacaattttg ttttcaaact ccaatctagc ctttcaaact tttatccagg 540  
 ttctccagaa tatttgaggat ctttgttatc aaagcacaag gaaagctggc attcattatc 600  
 agacttcgct gctttacaat ganttcaaact catttcatga tacaataaaa gtgcctctga 660  
 ctgg 664

<210> 1274  
<211> 153  
<212> DNA  
<213> Homo sapiens

<400> 1274  
 ccacaataaa gtttacttgt aaaatttttag aggccattac tccaattatg ttgcacgtac 60  
 actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgac 120  
 ccggagtctc tgggtgtaccc tcttaccagt cag 153

<210> 1275  
<211> 504  
<212> DNA  
<213> Homo sapiens

<400> 1275  
 aaaattctga taaaaattta ctcaattaca ttttatacat taatatttag tgaatttgct 60  
 caaaaaggct atgtttaatt tatgtgtaaa aataacaaaa gatgtatcag tcagtctctg 120  
 ggcaataaga aaggaagaaa gccttgctag aaataataaa taatctcacg caaaaggcca 180  
 ggtgacataa gaatactaca ataatacaata tgttttcttt gtattttacaa taaaatccat 240  
 ctgttaacac tgtgatagaa aaaataatca gtccacatca tgtaataaaa acaggctttg 300  
 aggatgatta tacctcttat aataaaaaca tacaaggatt tctcacagct aaagtacttt 360  
 tcaactttga caactaatga cagtcattggg tgaaggtaaa actgacagag tacttttagat 420  
 cagctatgtc ctacagtcaa ggaatcaagg gcattaccca tttaccaagc agcaaaaagc 480  
 actttcattt ttccagaact attt 504

<210> 1276  
<211> 533  
<212> DNA  
<213> Homo sapiens

<400> 1276

```

gacaatgatg tcaactgtttg gagcccccag ggcaggattc atcaaattga atatgcaatg 60
gaagctgtta aacaaggttc agccacagtt ggtctgaaat caaaaaactca tgcagttttg 120
gttgcaattga aaagggcgca atcagagctt gcagctcatc agaaaaaaat tctccatgtt 180
gacaaccata ttggtatctc aattgcgggg cttactgctg atgctagact gttatgtaat 240
tttatgcgtc aggagtgttt ggattccaga tttgtattcg atagaccact gcctgtgtct 300
cgtcttgtat ctctaattgg aagcaagacc cagataccaa cacaacgata tggccggaga 360
ccatatggtg ttggtctcct tattgctggt tatgatgata tgggccctca ctttttccaa 420
acctgtccat ctgctaacta ttttgactgc agagccatgt ccattggagc ccgttcccaa 480
tcagctcgta cttacttgga gagacatatg tctgaattta tggagtgtaa ttt 533

```

<210> 1277

<211> 78

<212> DNA

<213> Homo sapiens

<400> 1277

```

ccacaggaag ttgcaaaaat tagatggact ctgtgtagct agccactctt gagtgtcagg 60
tctgcatatg tgagtttt 78

```

<210> 1278

<211> 560

<212> DNA

<213> Homo sapiens

<400> 1278

```

aaatatctaa aacaatggcc cactgaagaa aggaacaatt aactcttta ttaattcctt 60
aggataagta cccagaaatt taacagctag ggcagacttc taatacaata ccgaaagtcc 120
ttccaaaaac caagtgggtt ccaacttatg tcccttagca ttataacatt cttgagccaa 180
tagtgtaaaa atacgctgac aatttttatg gcaaacatta ctcaagggtat cttactttcc 240
acttattact aaagtaatta acccctaaat agatgctcct caacagtggg actacatcct 300
ggtaaaccta tcataagttg aaactatcaa gttgaaatgc atttagtacc cggataaacc 360
tatcataaag ttgaaaattt gtaaattgaa ccagtgtaaa tcagaggcca tcttacttca 420
tactcatgaa gcaactatag tgggatattt ttcaacttac gagatagcct aggcctgttg 480
aaacactgtc ctaattttact ggctctctgg taattaagtc ataaatggtc aaacatcaaa 540
ttctagaaaa gcatatatatt 560

```

<210> 1279

<211> 580

<212> DNA

<213> Homo sapiens

<400> 1279

```

aaaggagatt gtttcaaaat atttttgcaa attgagataa ggacagaaaag attgagaaac 60
attgtatatt ttgcaaaaac aagatgtttg tagctgtttc agagagagta cggatatatt 120
atggtaattt tatccactag caaatcttga tttagtttga tagtgtgtgg aattttattt 180
tgaaggataa gaccatggga aaattgtggt aaagactgtt tgtacccttc atgaaataat 240
tctgaagttg ccatcagttt tactaatctt ctgtgaaatg catagatatg cgcagtgttca 300
actttttatt gtggtcttat aattaaatgt aaaattgaaa attcatttgc tgtttcaaag 360
tgtgatatct ttcacaatag cttttttata gtcagtaatt cagaataatc aagttcatat 420
ggataaaatgc atttttattt cctatttctt tagggagtgc tacaaatgtt tgtcacttaa 480
atttcaagtt tctgttttaa tagttaactg actatagatt gttttctatg ccatgtatgt 540
gccacttctg agagtagtaa atgactcttt gctacatttt 580

```

<210> 1280



<211> 307  
 <212> DNA  
 <213> Homo sapiens

<400> 1280  
 aaacacatac gaagaaatca actgtgatta tgaagtggca gccagctaaa tatgtcttgt 60  
 atttgctctc ttcctttttt tgcctaactc atcctttact tccattcctg cttccatggt 120  
 aatgcaggct caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180  
 ctcataatat gataagcatt tggtacaaga ttgcctgtag ttgtttaggg gataaattat 240  
 attagggaaa gaaagtcttt ctttagttgg ttaaattttc tattataatt gggactaaa 300  
 tttattt 307

<210> 1281  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<400> 1281  
 aaaatatattt aatagttaca tagcacttta gtttgctgat ttaatttatc ccaagggaca 60  
 aggatgttaa tgagaaaact gactagattt cagatcacag attttaagag aacaaggatc 120  
 tcaaaaccaa ataccctctg cttaaagtgt tttttgtgtt tttcactact gaaaatgttt 180  
 agagattgac ttacctattg ctgatactca aaacatctga tatcttaata ttttt 235

<210> 1282  
 <211> 230  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 194  
 <223> n = A,T,C or G

<400> 1282  
 aaagaatttc tttataagat tkactgtmta agattaatag cattcgaaga tccccagact 60  
 tcatagaata ctacgggaaa gcattttacct csgtcgctga ccackctarg ggcsawggcc 120  
 agcacactgg cggcggttac tagtggatcc gagctcggta ccaagcttgg cgtaatcatg 180  
 gtcatactctg attnctgtga ggtaccagat tgccctgtagt tgttttagggg 230

<210> 1283  
 <211> 638  
 <212> DNA  
 <213> Homo sapiens

<400> 1283  
 aaacacaaca gctataaacc tgaacacata tgctatcatc atgccataag actaaaacaa 60  
 ttatatattag cgacaagtag aaaggattaa atagtcaaat acaagaatga aaaacgcagt 120  
 acatagtgtc gcgaactcaa atcggcattt agatagatcc agtggtttta acggcacggt 180  
 tttgcttata aaaaaagtgc aaaaaagatg tggtttaca gttaaagcta cagaatccct 240  
 ttttgctgta attgcaccag ttttaaagcc tctggacaga gcagtatttc gtttaaaact 300  
 ttgttyttct taaaagctta cagtgttttg ctaattctcc tcyccttttt acaagacggg 360  
 ggccggaggg tggacactgg tggcagggtta agggatactg tcactttaag aagcctgcag 420  
 attgaagtgt aaacatggag aaattagggg ctgatttttt aaactgtgtg agatattaac 480  
 cagccgccct gttataaaat caggaaatcc aaacagcgat ttacaccgat taacaccccc 540

```

tttatatatt ttttacaaaa atacactgag aaaataatca aacgttttca tctctcttgt 600
ctttttttgt tttttaaaag tgtcaaaagt ctacattt 638

```

```

<210> 1284
<211> 745
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 715
<223> n = A,T,C or G

```

```

<400> 1284
cgacggtatc gataagcttg atatcgaatt cctgcagccc gggggatcca ctagttttga 60
atttacacca agaactttct aataaaaagaa aatcatgaat gctccacaat ttcaacatac 120
cacaagagaa gttaattttct taacattgtg ttctatgatt atttgtaaga ccttcaccaa 180
gttctgatat cttttaaaga catagttcaa aattgctttt gaaaatctgt attcttgaaa 240
atatccttgt tgtgtattag gtttttaaata accagctaaa ggattacctc actgagtcac 300
cagtaccctc ctattcagct ccccaagatg atgtgttttt gcttacccta agagagggtt 360
tcttcttatt tttagataat tcaagtgcct agataaatta tgttttcttt aagtgtttat 420
ggtaaaactct tttaaagaaa atttaatatg ttatagctga atcttttttg taactttaaa 480
tctttatcat agactctgta catatgttca aattagctgc ttgcctgatg tgtgtatcat 540
cgggtgggatg acagaacaaa catatttatg atcatgaata atgtgctttg taaaaagatt 600
tcaagttatt aggaagcata ctctgttttt taatcatgta taatattcca tgatactttt 660
atagaacaat tctggcttca ggaaagtcta gaagcaatat ttcttcaaat aaaanggggt 720
taaactttta aaaaaaaaaa aaaaa 745

```

```

<210> 1285
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 1285
cgacggtatc gataagcttg atatcgaatt cctgcagccc gggggatcca ctagttatta 60
atagtaatca attacggggg cattagttca tagcccatat atggagttcc gcgttacata 120
acttacggta aatggccgcc accgcgggtg agctccagct tttgttcctt ttagtgaggg 180
ttaattgcgc 190

```

```

<210> 1286
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<400> 1286
ctgcatcttt ctacaattct accagcaata tatgagggtt acaattttct yccatctttg 60
tgaacgcttg ttagagtctg tcctcttttc ttccattctg tgggttggtt ttttactttc 120
taaatggtag aaccttcaaa gcacaaaggt ttt 153

```

```

<210> 1287
<211> 232
<212> DNA
<213> Homo sapiens

```

```
<210> 1288
<211> 90
<212> DNA
<213> Homo sapiens
```

```
<210> 1289
<211> 670
<212> DNA
<213> Homo sapiens
```

```
<210> 1290
<211> 352
<212> DNA
<213> Homo sapiens
```

```
<210> 1291
<211> 99
<212> DNA
<213> Homo sapiens
```

<400> 1291  
 aaaaattatt taagqtaatg gtattacgaa tggtttaaaa atgtctggtg acttgcttat 60

99

<211> 295

<212> DNA

<213> Homo sapiens

<400> 1292

|             |             |             |            |             |             |     |
|-------------|-------------|-------------|------------|-------------|-------------|-----|
| aaatataacct | tatttttctca | aactcaaagc  | tttatcaagt | tctaacacat  | tttgcaattga | 60  |
| caagtgattt  | tatctgcac   | aagtaagggt  | agtgaccacc | acgaaagagg  | aatccccaga  | 120 |
| cctcctagagc | actaagaaat  | attttcaaagg | ctatgcaaat | atagaacaaa  | aagctttcaa  | 180 |
| tttagctctaa | tgttgatctta | tttttcatct  | atattaattt | ggaaataagt  | tgctacctta  | 240 |
| gaaaaattac  | ttttttatcc  | attaaaaataa | aacaccagat | agqgttgagtt | ttttt       | 295 |

<210> 1293

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1293

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| agattcactt | caaagtgaaa | atgacaacac  | atctcaagaa | actcaaagaa | tcatactgtc | 60  |
| aaagacaggg | tgttccaatg | aattcactca  | ggtttctctt | tgagggtcag | agaattgctg | 120 |
| ataatcatac | tccaaaggaa | ctgggaatgg  | aggaagaaga | tgtgattgaa | gtttatcagg | 180 |
| aacaaacggg | gggtcattca | acagttttaga | tgttcttttt | attttttttc | ttttccctca | 240 |
| atcctttttt | atctttt    |             |            |            |            | 256 |

<210> 1294

$\langle 211 \rangle$  90

<212> DNA

<213> Homo sapiens

<400> 1294

aaaataacttta gctttatttaa agacatggta ctaaaaaataa cagattccaa catttgctct 60  
atttctacttt atatatcata aataagacag 90

<210> 1295

<211> 519

<212> DNA

<213> Homo sapiens

<400> 1295

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| ctgtcgttt  | atcagtgcta | tatttatctg | gaatatagag | gctcctttta | ctgttttttaa | 60  |
| ggtgctttgt | gctaaggatg | aagatacaat | tcctcagctc | ttggtagact | tttggggaagc | 120 |
| tcagctagtg | gcatgtctcc | cagatgtggg | acttcaggaa | ctctttttca | aactcacatc  | 180 |
| acagtacatc | tggagattgt | ctaagaggca | gcctcctgac | accacaccat | tgcgaacatc  | 240 |
| ggaggatctt | attctcctgg | tcatttcctt | gtagatattt | ggaataaaat | aatcacactg  | 300 |
| actgtgattg | ggtagatcac | attccatatt | ctcctgtgag | tctcagaaga | tgtttcattt  | 360 |
| tgtagaacgg | tgtaaagtgg | ttccattcca | gcatgaatgt | ggtcggtcac | atggcagtg   | 420 |
| agtaacccaa | ttccagggtg | tcttggaaac | atttctagg  | tttggtatgt | tcaggggaaa  | 480 |
| atgtcaaaga | catcagaact | ataaactccc | ctgtgctttg |            |             | 519 |

<210> 1296

<211> 419

<212> DNA

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aaggtccatc | tttgcaaatt | atacgttgct  | ataaatacat | tgtgtatttg | gcattatgtg | 60  |
| aatttgttta | atccagtgtc | aatttgtctaa | tggtctaaag | tgtccattg  | aagttataat | 120 |
| ctggatgact | tgaacaataa | gagaagtttt  | cttcattagc | ccaattgttt | atcactcaat | 180 |
| tcctactcct | gccactgggt | tcttccacct  | tctcttgagg | aacataaaga | gattcttaga | 240 |
| ctctgtataa | ggtggttttc | tttagactga  | aatcatcagt | gaqgattata | catgggcaat | 300 |

```
<210> 1300
<211> 182
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 3, 5  
<223> n = A,T,C or G
```

```
<210> 1301
<211> 312
<212> DNA
<213> Homo sapiens
```

```
<210> 1302
<211> 109
<212> DNA
<213> Homo sapiens
```

```
<210> 1303
<211> 330
<212> DNA
<213> Homo sapiens
```

```
<400> 1303
ccagagttac ttggatcagc atttaggaaa gtaaaatata gtggaagtaa aactgactca 60
tccaactaga cattctacag aaagaaaaat gcattattga cgaactggct acagtaccat 120
gcctctcagc cagcccgtgt gtataatatg aagaccaa at gatagaactg tactgttttc 180
tgggccagtg agccagaaat tgattaaggc tttctttggt aggtaaatct agagtttata 240
cagtgtacat gtacatagta aagtattttt gattaacaat gtattttta at aacatatcta 300
aagtcatcat gaactggctt gtacattttt                                     330
```

<210> 1304  
 <211> 170  
 <212> DNA  
 <213> Homo sapiens

<400> 1304  
 ccactgtagt ctgcatatcc ctgtccatat ccatagttcc catagttata ccaggtataa 60  
 tcatatccgc catagccact atagttttga tcaccacat aggcactatt gtaatttcca 120  
 tatecttgat cataatagtt attaaatcct tgggtccagt tttggccctg 170

<210> 1305  
 <211> 468  
 <212> DNA  
 <213> Homo sapiens

<400> 1305  
 aaaaataaat atttatactc cagcttttgt gtatttgggtg tacatcacca cttatgcaaa 60  
 tcaaggatca gaaaactgga ggtagccat ctccattatt tccttttgca cattgggtac 120  
 agtgggtggc attagtagtc actagctgca aagtcacagc accttatgga aataagtagt 180  
 tttattataa taataaaag ttaagctgca tctctgtaga ttatttactt tgcagactgt 240  
 aaagctgccc tatcttttcc agcagaattt actcttccat tcttaattct tttttgaaat 300  
 atcttaaata atttaacatt cctttataac ttcttaacag tgtcaaaact ggggtagaag 360  
 ggatttttatt ttttcccaaa aggggttccat ctttgctatc tgttgatcag ccttagaaaa 420  
 tctaagtagt atcaataaat tttaatgggt gatggcatcc tgtgtcag 468

<210> 1306  
 <211> 326  
 <212> DNA  
 <213> Homo sapiens

<400> 1306  
 tggtaaagaa ctacctgtta atgcacaaaa ctatgtgcga tttattgaag atgagcttca 60  
 aattccagtt aagtggattg gtgttggtta atccagagaa tctatgattc aactctttta 120  
 atgattgccg gtaatgcaag aaacactcct tgagagggag gggaaaagac tttcttaaat 180  
 atttcattta tgacctgcaa attcaagaat aaagacactg aagtaagttt gaagccctac 240  
 agytgtttcc agtcttttca gatggatgcc tactgtggag attaactttg gcatattcca 300  
 gtgtcagctt tctttagctg gaattg 326

<210> 1307  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 294, 442, 458, 465, 580, 592, 609  
 <223> n = A,T,C or G

<400> 1307  
 aaaaattatt actgtaagaa atagttttat aaaaaattat atttttattc agtaatttaa 60  
 ttttgtaaat gccaaatgaa aaacgttttt tgctgctatg gtcttagcct gtagacatgc 120  
 tgctagtatc agaggggag tagagcttgg acagaaagaa aagaaacttg gtgttaggta 180  
 attgactatg cactagtact tcagactttt taattttata tatatatata ttttttttcc 240  
 ttctgcaata catttgaaaa cttggttggg agactctgca ttttttattg cggntttttt 300

```

gttattgttg gtttatacaa gcatgcgttg cacttctttt ttgggagatg cgygtytgyt 360
gatgttctat gttttgtttt gagtgtaggc tgactgtttt ataatttggg gagttctgca 420
tttgatccgc atcccctgtg gnttctaaag gggatgggcc tcagnaactg ttgcatggat 480
cctgtgtttg caactgggga ggacagaaac tgggggtgat agccagtcct gccttaagaa 540
catttgatgc aaagaatggg accctgcccc ggggccgggn cccctccgaa anggggggga 600
aatccang cacc 614

```

```

<210> 1308
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<400> 1308
ctgtcttttg gaggacgtac gtaataaggt ttttaatttag taaaccaatc ctatgcatag 60
tttcagcact agccaaacct caccaactcc tagttctaga aaaacaggca cttggcagcc 120
ttgtgatgtc atacagagaa gtcacaggca gtacctgagg gtctgtagg tgcacacttt 180
ggtagcagat aacttttttt ttctttataa gaaagcctga gtactccaca ctgcacaata 240
actcctccca gggttttaac tttgttttat tttcaaaacc aggtccaatg agctttctga 300
gcag 304

```

```

<210> 1309
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<400> 1309
gggatttcca attaacagta ttaccagata aatattcttg gtccaagcag aaaatatcaa 60
caaaaagagc cttcttctcc tgtaaattctt aaatgcctac atcactcttt atgatacatg 120
gatcatctta tgtggatact taaatttttc atgtctgctt cttttgcctc tcccaactat 180
actatgagga aattcggaac aaagacattt ttgtaattatt tcttatctcc ttcacaccta 240
gtatagagct gattttacaa aggcatttaa gagatatttg aattgattt 289

```

```

<210> 1310
<211> 534
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 480, 490
<223> n = A,T,C or G

```

```

<400> 1310
tgctttgcat tttctgatgt attacatgac tgtttctttt gtaaagagaa tcaactaggt 60
atttaagact gataatttta caatttatat gcttcacata gcatgtcaac ttttgactaa 120
gaattttgtt ttactttttt aacatgtgtt aaacagagaa aggggtccatg aaggaaagtg 180
tatgagttgc atttgtaaaa atgagacttt ttcagtggaa ctctaaacct tgtgatgact 240
actaacaat gtaaaattat gagtgattaa gaaaacattg ctttgtgggt atcactttta 300
gytttgacac ctagattata gtcttagtaa tagcatccac tggaaaaggt gaaaatgttt 360
tattcagcat ttaacttaca tttgtacttt agagtatttt tgtataaaat ccatagattt 420
attttacatt tagagtattt acactattga taaagtttgt aaataatttt ctaagacagn 480
ttttatatan gctacagggt gccctgattt tcttattgaa tttgggttaga ctag 534

```

```

<210> 1311

```



<211> 114  
 <212> DNA  
 <213> Homo sapiens

<400> 1311  
 aaaatttgta ggagttgtag actacctaaa tttttaagtt atggyatttg gtcataagggtt 60  
 gactgggtag gtaaagaagg aaacagacaa gaaaatggct tcttgagggtg gcag 114

<210> 1312  
 <211> 95  
 <212> DNA  
 <213> Homo sapiens

<400> 1312  
 gggcgggtaa aggtaggccg cgagagcgag gttaggagag gataggaggc cgcagtactg 60  
 ctcacacgct ccgctcttct cccactctcg actct 95

<210> 1313  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 1313  
 aaatgataca gtatTTTTagg tatgatttaa gactatgatt tacctataca ttatatatat 60  
 ttataaaaga tactaaacca gcataccctt actctgccag agtagtgaag ctaattaaac 120  
 acgtttgggt tctgaataaa ttgaactaaa tccaaactat ttcttaaaat cacaggacat 180  
 taaggaccaa tagcatctgt gccagagatg tactgttatt agctgggaag accaattcta 240  
 acagcaaata acagtctgag actcctcata cctcagtggg tagaagcatg tctctcttga 300  
 gctacagtag aggggaaggg attgttgtgt agtcaagtca ccatgctgaa tgtacactga 360  
 ttcttttatg atgactgctt aactccccac tgcctgtccc agagaggctt tccaatgtag 420  
 ctcagtaatt cctgttactt tacagacagg aaagtccag aaactttaag aacaaactct 480  
 gaaagaccta tgagcaaatg ggctgaatac tttttttt 519

<210> 1314  
 <211> 518  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 247, 270, 329, 357, 419, 440, 498  
 <223> n = A,T,C or G

<400> 1314  
 ccatggtggg tgaagacgct gatctgccct gtcacctggg gttttttatg agtgcagaga 60  
 ccaggagct gaggaaccc gagytccagc ctaaggcagg tgggtgaacgt gtatgcagat 120  
 ggaaaggaag tggaagacag gcagagtga cgcgtatcgag ggagaacttc gattctgcgg 180  
 gatggcatca ctgcagggaa ggctgctctc cgaatacaca acgtcacagc ctctgacagt 240  
 ggaaagnact tgtgttattt ccaagatggn gacttctacg aaaaagccct ggtggagctg 300  
 aagggttgag gtgagcctcc aggttttgnt ctgagaacac ttctctgtag gatctanagc 360  
 agatgcagag tccctcttcc aaaagtactg cagacactcc tggctgctca ctagcaatng 420  
 tctgcactgc ctcccaactn agcttctctg caacccttaa gaaagacaca ttctttcttt 480  
 agaaagaatt cctgctgnac cttacatgcc gaagtaaa 518

<210> 1315  
 <211> 360  
 <212> DNA  
 <213> Homo sapiens

<400> 1315  
 tctgtgcatc caatttatta tagwtttgta agtaacaata tgtaatcaaa cttctagggtg 60  
 acttgagagt ggaacctcct atatcattat ttagcaccgt ttgtgacagt aaccatttca 120  
 gtgtattgtt tattatacca cttatatcaa cttatttttc accagkataa watcttratt 180  
 tytacgacct atcattctga atcaagmaca ctgtatgttc agtaggttga actatgaaca 240  
 ctgtcatcaa tgttcagttc aaaagcctga aagtttagat ctagaagctg gtaaaaatga 300  
 caatatcaat cacattaggg gaaccattgt tgtcttcact taatccattt agcactattt 360

<210> 1316  
 <211> 277  
 <212> DNA  
 <213> Homo sapiens

<400> 1316  
 aaaaaacacg tttgttatta ccaaawagag acggcttttag gtaaaaataa taaaaaccct 60  
 ttgcttgyat tacytatgca ratagttsta tttatctggw cwacgggyta aaggyacagy 120  
 actataggwc tctggcttga gtmittacgt tcatttctta ttgctggaat ktcatttttc 180  
 ttcttggttg atgactaaac cggatgatgg tagagatggt aagccggcat ttactcagcc 240  
 ccgccttgct cagcctcggg agcggacgaa ttctcag 277

<210> 1317  
 <211> 716  
 <212> DNA  
 <213> Homo sapiens

<400> 1317  
 aaaatgttct cttgagacta gtaggcatag aagaaagcag aaggaaaata aatagaaaga 60  
 aggtcttcta cttcatggc tattcaggct caggagggtg gagagaaaaa gaaggaggac 120  
 aaatgaacaa gacagatgag ggagacatcc tctctgatat aagatacagt cctctctggt 180  
 ggatggagtc caatttgtgt aacttctat gtattttcct agataggacc accactattt 240  
 gagaaaatat ctactggta acctaaagcc aaggataata aaccttgata tacttaacat 300  
 tcaatttctt tccagcaatg tgataaataa atctatcttg tgtttctctt gcagattgta 360  
 aaagcattag aacatttaca tagtaagctg tctgtcattc acagaggtaa gcatccatga 420  
 gctgccttgg ctgttccttt gataaagttc atctctttca cctggagtcc gtctctaccc 480  
 ccagtcccc atgggtggaa gtagaattga ctacaggcaag agaactaagg ggctttcctt 540  
 tgagattgga tagcaaacca tataagtagt attccttata atggctgagg acataagaag 600  
 aagacgtgat ctttgtctta catccaaatt gaataataac acttggtagc aagcagagct 660  
 atgagatcat atcattgaga attttagaga atatgataaa aattgatctt gtctgg 716

<210> 1318  
 <211> 515  
 <212> DNA  
 <213> Homo sapiens

<400> 1318  
 aaagctgtat catgttgagt aaacctgacc tgagccagcg gtttaaggcg attttgctcg 60  
 atgaaggatca agacgtgaac ccggtcattg ccgacttggg aaggatacag cgcattctgca 120  
 aagtaaccgt cggcgaccct caccagcaga tttaccgttt ccgtgggtgcc gaagacgctc 180

tcaacagcga ttggatggcc gatgcagagc gtcactacct gacccagagc tttcgcttcg 240  
gtccagcagt cgcgcagtgt gctaacatca tactttttta caaggggtgaa actcgaaagc 300  
tgcaagggtt agggcccaaa acccagggtta aacgtgctgt tcctgaagac ctaccgcac 360  
gcacatacat ccatcgccacg gttaccggcg tcatagagaa cgcgcttagc ttggtagcga 420  
gcaatccaaa gatctatttg gtaggtggca tgcacagtta ttcattgcgc gacctggaag 480  
acttgtatct gttcagccgc aaccaaaacc aagcc 515

<210> 1319

<211> 141

<212> DNA

<213> Homo sapiens

<400> 1319

aaatttagtg tctcatttgg aaataaaactc tgggcctatt agttgttgag tatttttttt 60  
ttttactacc taaaaaaga tttgttaaga gctgaattac aacttagcat tacataatat 120  
aaaacactgt aatgtgtatt t 141

<210> 1320

<211> 497

<212> DNA

<213> Homo sapiens

<400> 1320

aaattcagtc ctaagaaaga ggagtgcttg tcccctaagg gtgtttaatg gcaaggcagc 60  
cctgtctgaa ggacacttcc tgcctaaggg agagtggtat ttgcagacta gaattctagt 120  
gctgctgaag atgaatcaat gggaaatact actcctgtaa ttcctacctc cctgcaacca 180  
actacaacca agctctctgc atctactccc aagtatgggg ttcaagagag taatgggttt 240  
catatttctt atcaccacag taagtctcta ctaggcaaaa tgagagggca gtgtttcctt 300  
tttggtactt attactgcta agtatttccc agcacatgaa accttatttt ttcccaaagc 360  
cagaaccaga tgagtaaagg agtaagaacc ttgcctgaac atccttcctt cccacccatc 420  
gctgtgtgtt agttcccaac atcgaatgtg tacaacttaa gttggtcctt tacactcagg 480  
ctttcactat ttccctt 497

<210> 1321

<211> 344

<212> DNA

<213> Homo sapiens

<400> 1321

ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60  
tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagc catcctgaat 120  
gtcctctatg gccagacga cccaccatt tccccctcat acacctatta ccgtccagg 180  
gtgaacctca gctctctctg ccatgcagcc tctaaccacac ctgcacagta ttcttggtctg 240  
attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300  
aacagcggac tctatacctg ccaggccaat aactcagcca gtgg 344

<210> 1322

<211> 110

<212> DNA

<213> Homo sapiens

<400> 1322

ccaccacata gccagccagg aatcccttga ggaacgggga ggacaacagc gagccaccct 60  
ggcccaactcc actgttgact tcgtcttcta cagcgcgctg caggctttcc 110

<210> 1323  
 <211> 359  
 <212> DNA  
 <213> Homo sapiens

<400> 1323  
 ccacgctgct ggcctgggct ggcgtctcct gctgtgagct ggctgaggag gacttcctgg 60  
 cggctctccc cttagatccg cgctatcgtg aggtccacta tgccttgctg gatccttcct 120  
 gcagtggctc ggggtgagatg gtgagaaggc gtggctgagg gactcagagg tccacagcag 180  
 cttagacctg gagtcattctg ttttggtctt agttctgaca ctttaaatggg cttggggacct 240  
 tggagcaaaa gttctcctct gtgaagcag gatttcagga gcgaggattt caggactgag 300  
 gcagcctgtg aagctgtgta accgagacac gcttttcctt aggtatgccg agcagacag 359

<210> 1324  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 1324  
 caatcacaca accacaaaaa agatactgtg tgctctcact ttccaaaatt ctgcctgggc 60  
 tmctcctgag gaaagyagtg atatggtagc tgggtggtgat cccctaaagg aattataaga 120  
 tggartgyga rgaacattat cttagactat aakactgkct gcatrcrgat atgktstera 180  
 agattattcc tgctgcraat aaagakmttg skaaagagca rtatasagct atcacagtct 240  
 attgacccam asatgttt 258

<210> 1325  
 <211> 534  
 <212> DNA  
 <213> Homo sapiens

<400> 1325  
 ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cacagcaagc 60  
 tacaaatgtg aaaccacagaa cccagttagt gccaggcgca gtgattcagt catcctgaat 120  
 gtcctctatg gcccggtatg cccaccatt tcccctctaa acacatctta cagatcaggg 180  
 gaaaatctga acctctcctg ccacgcagcc tctaaccac ctgcacagta ctcttggttt 240  
 gtcaatggga ctttccagca atccacccaa gagctcttta tcccacacat cactgtgaat 300  
 aatagtggat cctatacgtg ccaagcccat aactcagaca ctggcctcaa taggaccaca 360  
 gtcacgacga tcacagtcta tgcagagcca cccaaaccct tcatcaccag caacaactcc 420  
 aaccccgtagg aggatgagga tgctgtagcc ttaacctgtg aacctgagat tcagaacaca 480  
 acctacctgt ggtgggtaaa taatcagagc ctcccggcca gtcccaggct gcag 534

<210> 1326  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 1326  
 ctgcattatg tgtgttttaga acgagaagtt gtttgtacag ttttttcta ttgaccgctt 60  
 ccgtcttgcc tgaaacctgg gcattctttc caatagacag aaaatcagag agtcaaatct 120  
 gatgcgcaat gagttgttct gagaccagta atccacgggt ctgcaatttg ggttttt 177

<210> 1327  
 <211> 266

<212> DNA  
<213> Homo sapiens

<400> 1327  
aaacttggtt tatctaatac tgagcactgt ttttttgtca agtatttttt taagaccaca 60  
taattctttt tgtctgctca aggaaaggat agataaataa ttggcacaca tttgtttctc 120  
actgaatttt acagtagtaa attaattgta taatgtacca catggagatg agttggtaag 180  
aatcatcta gttccagagc ccagggatta taaacagtag gtgaaataga tttatgactt 240  
acgaaatatg ttgtgacaat atattt 266

<210> 1328  
<211> 409  
<212> DNA  
<213> Homo sapiens

<400> 1328  
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60  
tatgtatgtg gaatccagaa ctcaagtgtg gcaaacgcga gtgacccagt caccctggat 120  
gtcctctatg ggccggacac ccccatcatt tccccccag actcgtctta cctttcgga 180  
gcgaacctca acctctcctg ccactcggcc tctaaccat ccccgagta ttcttggcgt 240  
atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat cagccaaat 300  
aataacggga cctatgcctg ttttgtctct aacttggcta ctggccgcaa taatcccata 360  
gtcaagagca tcacagtctc tgcactctgga acttctcctg gtctctcag 409

<210> 1329  
<211> 136  
<212> DNA  
<213> Homo sapiens

<400> 1329  
ccattttcgc acagtccacc ataaaattga aaagattgac cagagacaga tcatggaggg 60  
cttggcaatc tgtactgatg aagccatgga ccagaagaga agtgagtcaa tgaagagagt 120  
ttctcttttc acatgg 136

<210> 1330  
<211> 311  
<212> DNA  
<213> Homo sapiens

<400> 1330  
ctgctaacag ccctaacggt gcaacacaag taaaaactca ggaacctctt cgactgccac 60  
gcccttcacc aacagaagga agacagtggc gccaccacaa gtggcagggc acaggggctt 120  
ctgtgacaac aatatgtcct tctagtatac attcattgca aaggctgcc tgaagtttcg 180  
tttttgaaa taactgttat catacatttt gtatgatgtt gcttgtgggc accatgaaga 240  
gagcctggct gtaaaggaca gagggagcta aaccaacaat gcatggccct gcgtgcccac 300  
aagagggagc c 311

<210> 1331  
<211> 613  
<212> DNA  
<213> Homo sapiens

<400> 1331  
ctggggcag agctgtgccc ggtgcctgca gccttcataa gcacacacgt ccattcccta 60



```
<210> 1335
<211> 555
<212> DNA
<213> Homo sapiens
```

```
<210> 1336
<211> 505
<212> DNA
<213> Homo sapiens
```

```
<210> 1337
<211> 385
<212> DNA
<213> Homo sapiens
```

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<400> 1337
ctgggtgctag tcagagctaa tgacagaatt tcagtttaat aaaaagaccc ccaactgagc 60
acaccatctt gaaaaaagta tacttatcaa acagctttca atcagttcaa gagagacacc 120
ttaattgggg agaggaagaa ttgcagagta gtttgtaatc atgccaattc cagatcaata 180
actgcattgtc tgttctttgg tagaaatagc ttttgcttta tattaagtaa tcacatatat 240
attctctcta tttggataag gaaaccttcg ctttatttga caatgtataa tgatatactc 300
ttctaattca cctctgtgtc ttcacaataa acatgagtaa aatttagaca agtgatggta 360
aagggtcaata taattattta ttttt 385
```

<210> 1338  
 <211> 350  
 <212> DNA  
 <213> Homo sapiens

<400> 1338  
 aaaggtgata ttacacaaaa cctcgtcttt tgttcaactt tggatccatt ggcaattcaa 60  
 tggcctcaat ctcccaaac tcgccaaagt actccctgat cttttcctca gtggcttcag 120  
 gattcagacc cccaacgaag attttcttca ccgggtcctt cttcatagcc atggcctttt 180  
 tagggatcaat gacacggcca tccagcctgt gtccttctg gtctaggacc ttctccacac 240  
 tggctgcata tttgaacagg ataaacccaa accctcttga ccgtccagt ttgggatcca 300  
 tttttattgt acagtcaacg acctctccaa atttagtaaa atagtctttt 350

<210> 1339  
 <211> 443  
 <212> DNA  
 <213> Homo sapiens

<400> 1339  
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 cctgagtaat catatcagga tgcattgtta gctgataaaa caataagatc ccaaaatgca 120  
 gtagctcaaa aaaagtagaa gttaatttat ctctggggg acagctctgg ttctcaaatt 180  
 ttacaggctc agaatcacct gcagggtctg tgaaagtaca gattgctgcg ctccgcccc 240  
 agagtctctg atttagtagg tgtaggctg aaccaagaat ttgcctttct aacaagctcc 300  
 caagtgatgc tgatgacttg taggaatgga tttacttcta ggattagact tcagctcact 360  
 ctgtttgctg aactctttct aatatttctt aagttggtag actcyctgct ccaggttctc 420  
 aacgtgaagg aaggaacccc cag 443

<210> 1340  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 1340  
 cctcaggaac aggtaggggc agcagaatag aatagcatcc atttcccaga gaaagactgc 60  
 ctttacatkt cccatgcttt tagcacaaag cagcgtctgg gccactgtta ccagaggtga 120  
 gtttatacat ttacaaaatg cttaaaatct ttgggaagca agaggaagct aaacagaagg 180  
 tcccatgtta actgaaggca aattcactca acctctctag taagggacct atgggcctac 240  
 agagtgttcc ctctacaatg tgcagagtgg aaa 273

<210> 1341  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 1341  
 ccatgggccc ggtcacgaac aaaacgggcc tggacgcctc gcccctggcc gcagatacct 60  
 cctactacca ggggtgtac tcccggccca ttatgaactc ctcttaagaa gacgacggct 120  
 tcaggcccgg ctaactctgg caccgcggat cgaggacaag tgagagagca agtgggggtc 180  
 gagactttgg ggagacggtg ttgcagagac gcaagggaga agaaatccat aacaccccc 240  
 cccaacacc gccaagacag cagtcttctt caccgcgtgc agccgttccg tcccaaacag 300  
 agggccacac agatacccca cgttctatat aaggaggaaa acgggaaaga atataaagtt 360  
 aaaaaaaagc ctccggtttc cactactgtg tagactcctg cttcttcaag cacctgcaga 420  
 ttctgatttt tttgttgttg ttgttctcct ccattgctgt tgttgacagg aagtcttact 480



taaaaaaaaa aaaaaatttt gtgagtgact cgggtgtaaaa ccatgtagtt ttaacagaac 540  
cagaggggttg tactattgtt t 561

<210> 1342  
<211> 159  
<212> DNA  
<213> Homo sapiens

<400> 1342  
aaagatggca aggcaataaa tgtgttcgta agtgccaacc gactaattca tcaaaccaac 60  
ttaatacttc agaccttcaa aactgtggcc tgaaagttgt atatgttaag agatgtactt 120  
ctcagtggca gtattgaact gcctttatct gtaaatttt 159

<210> 1343  
<211> 76  
<212> DNA  
<213> Homo sapiens

<400> 1343  
aaaatgtaaa gccaatctat caccaaaaat ggcatataatg taaacacaag ctaattttat 60  
aatccactgc tatattt 76

<210> 1344  
<211> 726  
<212> DNA  
<213> Homo sapiens

<400> 1344  
caaaagcagc ctgaatacgc aactcacgcc aagagggcag cagctctcct gacatccatg 60  
taagaaggct aacacctaaa ccacacgcag gcatcctgaa ctgagcagct ctgatccaag 120  
gtactgagtg gagacaaagc actcggaggt ggcaagatgt tcagcaacca agtaagacac 180  
actggcaagg catcccaccc aaaggtgaga agcacaaagc aggcttggag aaacaaacag 240  
tcattgccagg tgcagccaga catcctgcta taagccctga ccctagtacc ccgagttcat 300  
caagtgtctct ggtttttgtgt ccataaagca cagagggcac tgaccacccc aaaccagaat 360  
cccaagggaat ccttatggat ggcatagggc ctgagaactg ctgcaggatc attttccttt 420  
tcaggctcgtg gctgaacttg ttcacacctga agagctcact gtcataaaat gcagagaggt 480  
tgtggatgtt gatctgacga gccttatcca ccaagtcctt mtcagggacc tcaatagtgt 540  
cctgctgggc cccaaagcgg ttgcgctgat atgtcacstg ctctgccact aactgcttca 600  
gtatgaagag caacagctca ttgttgtcac gccggaatga aaggtagcgg gcaaaagtct 660  
tgcgcatgct gcgcatgacg ctgaacttct gtgtgtctat gaagstctcc akmatcayga 720  
gratgg 726

<210> 1345  
<211> 742  
<212> DNA  
<213> Homo sapiens

<400> 1345  
ccagagagcc ctgtcctgtg aggggtgggta tcacagtggc aggggttcaat tcagaagacc 60  
ttgagggcag gctgatgttt cctgaatggg cccctggttg ttgcttgtcc ctgactctcc 120  
atttcccat ctgagtggat ttggacctaa tagggcactg gagctgggtc gaatcctgac 180  
tggactactt ggcaacttta tgtctgggag caagttactt aacctcccca agcctgtgtc 240  
tgtgaaatgc gggtaaata gaatagatgt ttggcagcag ctactccttg ttgagctctc 300  
acagtgaact ctctgcctc tgccctcctt cccgcctcc cctggtgcct agcgtcaggt 360

```

ctagccactt cctcctgggc ccctctccct tttctgtggc tggttgctg cccgcctggc 420
gctggacctt tcatgtaacg ggaatcagca tgtatattct ggtctggtct gtttctacac 480
ttaattttgt ttccagtagt atttccctgt accggcagag ttcacaaaca catttgaaga 540
ggctttttct caggattctt aaccttccaa aggaagtccc atggatgggt ttctagaagt 600
ctataaatgc tctgaaattg ttttttctg tggaaaagca taacttttat ctgcttggtc 660
gtgctcaaaa aaagatcatg aatggaatga attgcattga attttatgcc attgggggct 720
taataactaaa aggatatgga ag                                     742

```

<210> 1346

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 498, 543

<223> n = A,T,C or G

<400> 1346

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aaatgcattk ttaacttaca gtattttcaa cttacgatgt gtttatcasg aagtaacccc 60
atcataagca gaggagcatc tgtattgcgt aatttgactg gcacagttaa ttaggttctg 120
ttcagtgwtt tccgtcaaca agatgtttat tgtgtgagta aacaagttaa gccctgtgac 180
aagctgaata agaatagtct ctcctcagca gcttatagta aacaagggtgta gtaatcctta 240
cattagtggc tagactatca aacgaaatat ataacatgta agaacactaa agacagaatt 300
actgtggcat agagatagtt agaattgctt cagcctaaga gatgaattag gtaatgcaag 360
gaggtgaata tggtggcctg caatatgaac aaggcagaga gctgggagag taagatgtaa 420
gttgctaagg agggatgtgt cttgagtttg gaaaccataa agggaaatca taggtaatgc 480
tagagtcact gatcttangg agccttgaat aacggtgatg actaagggaa tctttatttt 540
ggnngggacta ttggaattaa attggccaga att                                     573

```

<210> 1347

<211> 333

<212> DNA

<213> Homo sapiens

<400> 1347

```

cctggtttct ggtggcctct atgaatccca tgtaggggtgc agaccgtact ccatccctcc 60
ctgtgagcac cacgtcaacg gctcccggcc cccatgcacg ggggagggag ataccccaaa 120
gtgtagcaag atctgtgagc ctggctacag cccgacctac aaacaggaca agcactacgg 180
atacaattcc tacagcgtct ccaatagcga gaaggacatc atggccgaga tctacaaaaa 240
cggccccgtg gagggagctt tctctgtgta ttcggacttc ctgctctaca agtcaggagt 300
gtaccaacac gtcaccggag agatgatggg tgg                                     333

```

<210> 1348

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1348

```

aaaaaagctt gcagcaagaa aatgccagtg tgcaactggg tgactaaaga ccaaagaaaa 60
acagttaaaa gggacagctt acttgctctc tgtctcaggt ttaacttctc acctgaaatc 120
tctcatagcc ctaattaaac acaaacaaaa gtctcttcca tagataggct acttctcagc 180
ttcag                                     185

```

<210> 1349  
 <211> 171  
 <212> DNA  
 <213> Homo sapiens

<400> 1349  
 gcggcagcga ggggctcgga gaggtgctcg gattctcgta gctgtgccgg gacttaacca 60  
 ccaccatgtc gagcaaaaga acaaagacca agaccaagaa gcgccctcag cgtgcaacat 120  
 ccaatgtgtt tgctatgttt gaccagtcac agattcagga gttcaaagag g 171

<210> 1350  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<400> 1350  
 ttgtcatatc atatctatgt cacctgtgta ttctgagatt acacacatac ctgccaatat 60  
 acctgggaaa gggtattttta tcacagttac acttgagttc ttggcaggca ggactgagga 120  
 agagtaattt gaaagaagtt ttacatccta tttagaagaa atcactagta tttccttaaa 180  
 taacagggtta caatagaaag atactgcctg gaagttatcc tttcactttg gttcattttt 240  
 agttttttctt tatgattttac atagctgttt aattcatttg cttatagtac aatcctgcca 300  
 taaagtatta aagcacaaga tacctattat tccttcaaca tctgcatttt tcaagtttta 360  
 tactctacat ccacagtacg tcagcagttc ttgaatgttt 400

<210> 1351  
 <211> 309  
 <212> DNA  
 <213> Homo sapiens

<400> 1351  
 ccaggaaagg gcagtcctga gggagaagac aggattcagg gcagtgctcc gaagctgtgt 60  
 gctcacctgg ttggctcatc aaacctggca accctgtggc ctgtctgccg gagctgactg 120  
 gatecactca tcaattcttc gtccccacta ctaagactgg gcatgttttg ctgggtgtgg 180  
 ctctgcactt caggaatggg cacaacaggg ggtagccctc aaaagcactc ctttttctat 240  
 acctcttctc aaggccatgt aagttgcca tctctacctg gctgtggaca aaagggttatc 300  
 tgctcttgg 309

<210> 1352  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 1352  
 ccacttcac tgtgtgggaa cgtggtcagg ccgggtgctg gtgtttgaca tcccagcaaa 60  
 gggccccaac attgtactga gcgaggagct ggctgggcac cagatgccaa tcacagacat 120  
 tgccaccgag cctgccaggg gacaggattg tgtggctgac atggtgacgg cagatgactc 180  
 aggcttgctg tgtgtctggc ggtcaggggc agaattcaca ttattgacct gcattccagg 240  
 atttgaggtt ccgtgccct ctgtgcag 268

<210> 1353  
 <211> 620  
 <212> DNA  
 <213> Homo sapiens

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```

ccacacctcc agctcccatg cctgggccaa ctacggggct tgtgacgggg cctgatggga 180
agggcattgaa tcctccttcg tattataccc agccagcgcc catccccaat aacaatccaa 240
ttaccgtgca gacgggtctac gtgcagcacc ccatcacctt tttggaccgc cctatccaaa 300
tgtgttgtcc ttcttgcaac aagatgatcg tgagtcag 338

```

<210> 1357

<211> 159

<212> DNA

<213> Homo sapiens

<400> 1357

```

ctgggctgct gcctctggag tacttccccg cagctcctca ttgctcacat agtaggcaat 60
ggcgttgctc tcaaacacac agaatccatc atcaccctca aatgctggga ccttgccggc 120
aggaaatttg cggagaaatt caggggtgcg gttggtttg 159

```

<210> 1358

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1358

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cctgtcagag tggcactggt agaagttcca ggaaccctga actgtaaggg ttcttcatca 60
gtgccaacag gatgacatga aatgatgtac tcagaagtgt cctggaatgg ggcccatgag 120
atggttgtct gagagagagc ttcttgtcct gtctttttcc ttccaatcag gggctcgctc 180
ttctgattat tcttcagggc aatgacataa attgtatatt cggttcccg ttccaggcca 240
gtaatagtag cctctgtgac accagggcgg ggccgaggga ccacttctct gggaggagagac 300
ccaggc 306

```

<210> 1359

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1359

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agagggagtc cagcccccaa gccttgtgag gcactgttar gcagataggg aaaagagggg 60
tccttagatc actggttcaa ggagggatct ggtaggggca gcatttcttc tgggctggaa 120
acagaatggg ggtttcaaga tggcagaacc attccattat tggagctata agcccctaga 180
attgtcccat ggccatcttc ggtttccctt ggatctcatc tgctcctgaa ctgcacctgt 240
catggcaagt ccatctccgg ccccatctc ccctgagcca atgtgagtca ggtgaacaaa 300
attcattggg tccccaatca tgggtccggtc aatccgtctt ctcttcttct ttcttctcca 360
ccatccagac gttcagctac ag 382

```

<210> 1360

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1360

```

aaaaaacctt tcaaaataaa acttagtaaa atctagaact gkttcttggc ctacttgaga 60
ggaacttcca tattttcaca gccatctccg aaagcagcag ttgtgtgtaa ttaactgaga 120
cttgaaatg gtgcagactg tcttggtaga gctgttctta tagcacaatt ttatctggaa 180
aataaacttg taaatgcgtg ctgtatatta atacatgtgt gcccatatct atttttatta 240
tctcctgccg gtctttgctc aatgggagat gacagaccaa cttctcaacg tgatttcccc 300
atttcattga atgacattta tatgccactt atgaaaaaaa tactgctgtg aaagaaatgt 360

```

365

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| <400> 1361 |             |            |            |            |             |     |
| gaggtatgga | aaaatatcaa  | caaggaaata | ttagatttga | actgctgctt | cgtttagcaca | 60  |
| cagcacattc | tccaggatat  | accatatgtt | aggacacaaa | acgggtctca | ataaattttt  | 120 |
| aaaagtcaaa | atcttatcaa  | gtatcttctc | agaccacaat | ggaataaaac | tggaaatcaa  | 180 |
| taacaagagg | aacttctgaa  | attgaacaga | tacacggaaa | tcaaactaca | tgttcctgaa  | 240 |
| tgaccactgt | gtctatgaag  | aaattgattt | taaaaattta | aaaattcttt | gaaacaaatg  | 300 |
| aaaatagaaa | cacagcatac  | aaaaatgtat | agggtacaac | aaaagaagtg | ctatgaggga  | 360 |
| cattttattc | aataaacacc  | cacatcaata | aggtagaaag | tttttaaaca | aataacctaa  | 420 |
| taaacgcatc | tcaaggaaact | agaaaagcaa | gaacaaatca | aacctaaaat | tagaaggaaa  | 480 |
| taaatagtaa | agatcagagc  | ag         |            |            |             | 502 |

|             |             |             |            |             |            |     |  |
|-------------|-------------|-------------|------------|-------------|------------|-----|--|
| <400>       | 1362        |             |            |             |            |     |  |
| ctgattggat  | gtctaggaat  | gactgaaaga  | aaccaaaca  | gctgtccac   | tgtgtctgtg | 60  |  |
| ggatggagga  | ggcgtaagca  | gaaacactaa  | cagtatactg | acctcttagc  | agaaccgctt | 120 |  |
| ccattctgga  | gatcacggct  | gctaaatcca  | gcattccccc | ttcattttac  | cccagcata  | 180 |  |
| ttgtttctgta | gtctttttctt | gaaacatctt  | gattgctttt | cctcggcagc  | tttcaaaaaa | 240 |  |
| ccaaataata  | atagtttatcc | gtctttctact | tcatggaaga | ttgttttggg  | gccctgaccc | 300 |  |
| tctgaagtgc  | ccagtttctg  | ccatctgaaa  | cctcggcctg | atctgatctc  | atgttggaat | 360 |  |
| ctgcctgtct  | ttcacacagg  | gctggctctg  | gtcctttaca | tgccagtttt  | gcttgtgaat | 420 |  |
| tcttgctttt  | ttcctctcat  | cagccttaag  | tttaggcggt | tgttgttctc  | cagtgatgta | 480 |  |
| gacaggttccc | ttcacaagtc  | acagttcttc  | ccataaatga | ggcccgcgtga | cctctgcggg | 540 |  |
| acttt       |             |             |            |             |            | 545 |  |

```
<400> 1363
gggagatgca ggatgtagac ctgctgagg tgaagccttt ggtggagaaa ggggagacca 60
tcaccggcct cctgcaagag tttgatgtcc aggagcagga catcgagact ttacatggct 120
ctgttcacgt cacgctgtgt gggactccca agggaaaccg gcctgtcatc ctcacctacc 180
atgacatcgg catgaaccac aaaacctgct acaacccctt cttcaactac gaggacatgc 240
aggagatcac ccagcacttt gccgtctgcc acgtggacgc ccctgg      286
```

<400> 1364  
ccatcaggat catgaaaaca aacttttggtg aatgtgagca actgcgccag acaggacaca 60

ctgggcggat agcaccgggc atatatttga atggatgagg tctggcaccc tgagcagtc 60  
agcgaggact tgggtcttagt tgagcaattt ggctaggagg atagtatgca qcacqgttct 120

```
<210> 1369
<211> 429
<212> DNA
<213> Homo sapiens
```

```
<210> 1370
<211> 540
<212> DNA
<213> Homo sapiens
```

```
<210> 1371
<211> 142
<212> DNA
<213> Homo sapiens
```

```
<210> 1372
<211> 377
<212> DNA
<213> Homo sapiens
```

```
<400> 1372
ccaccatcttg tgcaagtagc caaaaccact ccttttaaca cgagggagcc tgtgatgctg 60
gcctgctatg tgtggggcct ctatccagca gaagtgacta tcacgtggag gaagaacqqq 120
```



```

aagcttgtca tgctcacag cagtgcgcac aagactgccc agcccaatgg agactggaca 180
taccagaccc tctccattt agccttaacc ccctcttacg gggacactta cacctgtgtg 240
gtagagcaca ttggggctcc tgagcccatc ctctgggact ggacacctgg gctgtccccc 300
atgcagaccc tgaaggtttc tgtgtctgca gtgactctgg gcctgggcct catcatcttc 360
tctcttggtg tgatcag                                     377

```

```

<210> 1373
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<400> 1373
ccatgctaag tttgggaacc gctgggtgatg ggacatggat gcttgcaacc gaccgtgggc 60
ggatgtggtt gaccagatgg cagaggacga caccatccat gagggctgcc cccaggtctt 120
cgtgcagact gaccttcaat ctcatctcaa tgctctcacg aagttgttcc accagctctt 180
tctcttctct catctgctcc attttcctcc ggattgtaaa ctgcgggtct atagattcca 240
aatttctctg aggtcttaga aacacagact cagaaatcaa atgaggatgt ctcagaaagg 300
agtcactttt ccagaggcag gctgcccctt aactcagccg agcagcagga accactgggg 360
ccaaagctat tttatcttcc ttaggtaaaa aaaaatcaat agaatatctt ttccccgctt 420
acatgctccc accactgatg aacgcgatct tcagcaagaa gaactttgag tccctctccg 480
aagccttcag cgtggcctct gcag                                     504

```

```

<210> 1374
<211> 201
<212> DNA
<213> Homo sapiens

```

```

<400> 1374
cctccgtaag atgcttgaca attttgactg ttttggagac aaactgtcag atgagtccat 60
cttcagtgtc tttttgtcag ttgtgggcaa gctgcgacgt ggggccaaagc ctgagggcaa 120
ggctataata gatgaatttg agcagaagct tcgggcctgt cataccagag gtttgatgg 180
aatcaaggag cttgagattg g                                     201

```

```

<210> 1375
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

```

```

<400> 1375
ctgtgaggct gnttccaagg aggaaaaaca ggaaaaaaat cgatatgtaa acatcttgcc 60
ttatgaccac tctagagtc acctgacacc ggttgaaggg gttccagatt ctgattacat 120
caatgcttca ttcataacg gctaccaaga aaagaacaaa ttcattgctg cacaaggacc 180
aaaagaagaa acggtgaatg atttctggcg gatgatctgg gaacaaaaca cagccaccat 240
cgtcatggtt accaacctga aggagagaaa ggagtgcagg tgcgccagc actgg 295

```

```

<210> 1376
<211> 318
<212> DNA
<213> Homo sapiens

```

<400> 1376  
ccagcgctac tgtactggcc cagggcagag ttcattgtatc tcgtcttgac cacgtctaca 60  
ggggaggcga tgacagtggg gcagaagcct gcccacaaagg cagaagtga gttggcaagg 120  
aggtcatctg tcatgaggtt ggctttcagg agggcatcct tgatgaggtc ataggtcacc 180  
agctcagcac agttgacaat ggcatcaca gcaacattgg gggagggtcc tttccagagg 240  
ccccggaacc cttctctctg ggcaatgggc ttgtaggcat tgacgggtgc ttggtatctc 300  
cgaccacctc cagcccgg 318

<210> 1377  
<211> 143  
<212> DNA  
<213> Homo sapiens

<400> 1377  
gtggattccg ytccggggcac cgatctcgcc aagatcctga gtgacatgcg aagccaatat 60  
gaggtcatgg ccgagcagaa ccggaaggat gctgaagcct gggtcaccag ccggactgaa 120  
gaattgaacc gggagggtcg tgg 143

<210> 1378  
<211> 98  
<212> DNA  
<213> Homo sapiens

<400> 1378  
aaatattggg aatagggtcg caacagcaac tatagaagta caactcaata gatggcatta 60  
aaacatattg tagtgtggat atatattttt tctttttt 98

<210> 1379  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 1379  
aaagatgttc acgttacgct ggaccaaatt aagacggcct tctccctctt gctgacgtgc 60  
cccagccgtg ataatgacca gcttggagtt tgcagttaca ttatagtctt tgccagagac 120  
aatctttggt gttctaagga aaaggctgcc atgttggaga tccatcatct ctcccttcaa 180  
tttgtcttcg acgacatcaa caagagcaag ttcattctgc aagtccttca ttaagatact 240  
gatggcacag gccatgcaa cagcaccaac cccaacaact gtaatcttat tctggggggg 300  
ctgttcttcc tttagaagat tataaatcag 330

<210> 1380  
<211> 269  
<212> DNA  
<213> Homo sapiens

<400> 1380  
ccactcctgg aaaccactg atagatgagt tcccccatc cttctggcct ccgccacatg 60  
atcaggaagc tggacttgct cttatocaa cactcgaggt tccctttctt cctcagttcc 120  
tctaatacaa tctggatcga ctccacagga agctttcgct gtagcttgac gttgttgaag 180  
agcgggctct cctgagcttc catcacctgc atgctggact gtttgtgcag gcggcagaag 240  
gacaggacca gcgagcacca ggcggccag 269

<210> 1381

<211> 232  
 <212> DNA  
 <213> Homo sapiens

<400> 1381  
 aaaagagagg aaaggcagtg cagggctgga ggtcctggag ggtggcggcg ggtcgtccta 60  
 actagcaggc tgaaagggtgc tggaggggat gccttcactc agaggaagtt cacagccacc 120  
 tgccttgga catgtacctg ttcattcttt cgtaattgta gtattcattt tgctatcttc 180  
 ctgttgccat ttccaaacag tgtcagtatg tttttgttaa atacgaacat tt 232

<210> 1382  
 <211> 348  
 <212> DNA  
 <213> Homo sapiens

<400> 1382  
 aaacgtgcta aagggaaagg aatctgacat tctgggtaaa tcttactcaa tctaaatcaa 60  
 agcttggttt tcaggaggag gaagggtgcga ggcgaggcag aggtgctgaa tactcctctt 120  
 ctgattcact tccatcatcc tctttctctt ggctactgcc ctgagtgcta agccggtcaa 180  
 acccttttctg actgtagccc ttacggcttg caaagaaatt accaaggttt aagcctccac 240  
 ttccctttcc tctaaatctt cccagtaact ttctgaact cgtctcgagt ttgtgttcag 300  
 aatctccaaa ggcccttgat tttttccacc gaataaatat ggcaatgg 348

<210> 1383  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10  
 <223> n = A,T,C or G

<400> 1383  
 ctgcttcaan acctcagctt catgggactt gcgtctttct tctgcagctt ctaatttctt 60  
 ctgaatttcc tccagggaat gatccttctt ctttgaggag gaaaggggga attctggaac 120  
 agattctttt gaccgagggc tgagaatcag ctcaaaagcc tggcccgagg cacgcttctc 180  
 cagttctttc acctggatat cagaagaagc catggtgaat agaagacaag cgacaggcag 240  
 tgtattctgc acaatcaact gggataagga aagtcctgct cagtccgagc cgc 293

<210> 1384  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<400> 1384  
 ctgaagcaac ttgggattaa ttgcttgatt agcttcacga agcacagaga taaggctcgt 60  
 cacttgcttt atgttattag gtgtaaagaa agtgtatgct gtgcctgttt tggtagtgcg 120  
 agcagttctt ccaattcgat gaataatac ctctgaggag ttagggtagt cataattgat 180  
 gacaaatttc acatcttcca catctagccc tctggaggcc acatctgtag caatcagaat 240  
 aggagctttt ccatgtttga attcatttag aaccagtcga cgctcttggt gactcttgct 300  
 accatggata cccatggcag gccacccatc tctcctcatt tttctggtaa gctcatcaca 360  
 tcttcttttg gtttccacaa aaacaatggg tttattctcc ttctcactca tgatctcttc 420  
 cattagaaga ataagttttt catccttttc tacgtcatga cacacatcca caatctgaag 480

aatgttgtgg ttgcaactca gttcaagtgc accaatgttt atatgaatat agtctttcag 540  
gaaatcttca gcaagctgtc ttacttcttt tgg 573

<210> 1385  
<211> 150  
<212> DNA  
<213> Homo sapiens

<400> 1385  
ccaaggccgc tagggctcctt acccctcagg atcaactccc agccctttcc tcaggaggta 60  
ccgctctcca aggtgtgcta gcagtgggcc ctgcccaact tcaggcagaa cagggaggcc 120  
cagagattac agatcccctc ctgtaagtgg 150

<210> 1386  
<211> 159  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 139  
<223> n = A,T,C or G

<400> 1386  
aaatgatgtt ttggttaaga gtggaccatg agaattagct gacagcatcc cctttctctc 60  
tccctgcctt ggtgggaccc tccctgtgtg accttggtca agtcctcgaa cttttgtccc 120  
gtatttaaga tggagctgnt ttacctactt cataagaca 159

<210> 1387  
<211> 735  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 5, 20, 41  
<223> n = A,T,C or G

<400> 1387  
ggtgnaattc gcctttgaan ggccgccggg caggtccttt ntgtstgctg aaggcagatc 60  
gcttgttcca caccagctac cactcccagg cagtgcatac ccgccctgtt tgcagaaatg 120  
cacgctgtac tagcatctcc tgggagctga ggcagaccct gtcagttgta tttgatgcct 180  
tcatcacggg gcagggaaaag aaagactggc ccctcttcgc gatgttctcc cgaaccctca 240  
cggagccctg cccctggct tcagagagcc gagtctatgt ggacatcacc acctacaacc 300  
aggacaacga gacattagag gtgcaccac ccccgaccac tacatatcag gacgtcatcc 360  
taggcaactg gaagacctat gccatctatg acttgcttga caccgccatg atcaacaact 420  
ctcgaaacct caacatccag ctcaagtgga agagaccccc agagaatgag gccccccag 480  
tgccctttct gcatgccag cggtagctga gtggctatgg gctgcagaag ggggagctga 540  
gcacactgct gtacaacacc caccatacc gggccttccc ggtgctgctg ctggacaccg 600  
taccctggta tctgcggtg tatgtgcaca ccctcacat caccctccaag ggcaaggaga 660  
acaaaccaag ttacatccac taccagcctg cccaggaccg gctgcaacct cacctcctgg 720  
agatgctgat tcaga 735

<210> 1388

<211> 369  
 <212> DNA  
 <213> Homo sapiens

<400> 1388  
 ctggggacag cctacagggg cctccagcct gtgccagacg aggaggtgat tgagctgtat 60  
 gggggtaccc agcacatccc actataccag atgagtggct tctatggcaa gggccctcc 120  
 attaagcagt tcatggacat cttctcgcta ccggagatgg ctctgctgtc ctgtgtggtg 180  
 gactactttc tggggccacag cctggagttt gaccaagcac atctctacaa ggacgtgacg 240  
 gacgccatcc gagacgtgca tgtgaagggc ctcattgtacc agtggatcga gcaggacatg 300  
 gagaagtaca tcctgagagg ggatgagacg tttgctgtcc tgagccgcct ggtggcccat 360  
 gggaaacag 369

<210> 1389  
 <211> 322  
 <212> DNA  
 <213> Homo sapiens

<400> 1389  
 aaagatgttt ctggcatttt ctttttattt gtaagggtgt ggtaactatg gttattggct 60  
 agaaaatcctg agttttcaac tgtatatatc tatagtttgt aaaaagaaca aaacaaccga 120  
 gacaaacccct tgatgctcct tgctcgccgt tgaggctgtg gggaagatgc cttttgggag 180  
 aggctgttagc tcagggcggtg cactgtgagg ctggacctgt tgactctgca gggggcatcc 240  
 atttagcttc aggttgtctt gtttctgtat atagtacat agcattctgc cgccatctta 300  
 gctgtggaca aaggggggtc ag 322

<210> 1390  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<400> 1390  
 aaatattagw tgagacttta caggcacata actgttcaga tagaaacaaa cataacagac 60  
 taaaatactt tcaaaattaa agccatctag aaaatggaag taactgaaac tgtagccatt 120  
 acaattcttt ttctggtttt gagcaaaaaat tttatctctc tggcaaaaca cttttgtctg 180  
 atcatttgag agacaggggt cttgtatact gtttcttcaa cgtaaacctc atttacaana 240  
 atagtacat agcattatga ataaactatg aattggggac catggaaatg cactagaaca 300  
 aattttgtaa aaatatggca gatatggaag ttaaaaatag aatggatgca aggactgtac 360  
 taaagggtgt tggtgtagtt acaatgttca ctttgcaaa ctatccctat agtctaggta 420  
 gccattgggt ttctcctcag cagtgtcaga 450

<210> 1391  
 <211> 304  
 <212> DNA  
 <213> Homo sapiens

<400> 1391  
 aaaaaatcat aaatgggggt tcataatcca aagttgaaac atttattctt catagcttca 60  
 gaattttaaca accaattgta gaccatgctt tccaaatcca gtcttctttg ctatttttca 120  
 aaacttctga gatctagat taaactgctc cattctaaat gtatagtttt agataagtat 180  
 tgtacacttg ttgataaggg ttttctgaaa gcagtctatc aaatataaag aatggtttct 240  
 atctaagaat cagcagtgag ggaagaaata ttaaacacct atcaagaaat caattattca 300  
 tttt 304

1388-1391

<210> 1392  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<400> 1392  
 ctggaagaag aactgagaca gcagaaagaa gcagcttggt tcaaggctcg tccaaacacc 60  
 gtcattctctc aggagccctt tggtcccaag aaagagaaga aatcagttgc tgaggggcctt 120  
 tctggttctc tagttcagga 140

<210> 1393  
 <211> 166  
 <212> DNA  
 <213> Homo sapiens

<400> 1393  
 aaaactttgt ttttcttaaa agcttacagt gtttggctaa ttctcctccc ctttttacaa 60  
 gacgggggcc ggaggggtgga cactggtggc aggttaaggg atactgtcac tttaagaagc 120  
 ctgcagattg aagtgtaaac atggagaaat taggggctga tttttt 166

<210> 1394  
 <211> 543  
 <212> DNA  
 <213> Homo sapiens

<400> 1394  
 gcagaggctg tggtagaaca tggtccttgg tgaagacctg caccctctga acctcccacc 60  
 atcatcacaa ctgtagtctc atttgcaagt gagaaaagaa cccgacgtcc cacagccaga 120  
 tatacaccca gctccatgcc agcccttcat gtttaccttt tgctttgtta attacatgtc 180  
 agactcctag agggcctcca gactaatagg aagcatttct gtaaccaacc tgccaccac 240  
 tgattcagaa atggaaatca cattccacaa tctatggctt ctaccagcta gcccaggaaa 300  
 tacttgaaat cagcattcca attagtgttg agtctcttga ttgtgtcatt taccaattaa 360  
 ataactgaga cctaagtctg ggaacagagc cacgaatctg cctttgagat gctggcagat 420  
 ctcaaggcca tcaattattg ggggagggag ggacaaacac tcccaatcat ccaccagtca 480  
 gactgaatgt gttagctggc aggaattact tccacttctg gcccagcaca agccctgctt 540  
 tgg 543

<210> 1395  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<400> 1395  
 cctatcatca gtgggggttg attcaccatc atccagggtg ccatcttcat acaaggtact 60  
 agctatgacc aaccgaaact tgtcacccaa gtctacaggg taaatttgaa tgtttacatc 120  
 taagattaga tccatcttga aagattcact ctcaaatgc agtcgagaca ctcggtcaaa 180  
 cttcttgccc tccgggtcaa tatccttcac atcgaaaata tcctcaaaca ggatgccgc 240  
 catcgcgagg gggccacgag agcagcagaa ggggtgagag cgcgaccaca gttgggagta 300  
 cgtgcacccc ctacgctgga caagaccgga gagaaccaa agcacctcct gaaagcgcg 360  
 cggc 364

<210> 1396  
 <211> 422  
 <212> DNA

<213> Homo sapiens

<400> 1396

```
gctgctgctg ctattgtgtg gatgccgcgc gtgtcttctc ttctttccag agatggctaa 60
caggggcccc agctatggct taagccgaga ggtgcaggag aagatcgagc agaagtatga 120
tgcggacctg gagaacaagc tgggtggactg gatcatcctg cagtgcgccg aggacataga 180
gcacccgccc cccggcaggg cccattttca gaaatggtta atggacggga cggtcctgtg 240
caagctgata aatagtttat acccaccagg acaagagccc ataccaaga tctcagagtc 300
aaagatggct ttaagcaga tggagcaaat ctcccagttc ctaaaagctg cggagaccta 360
tgggtgcaga accaccgaca tctttcagac ggtggatcta tgggaaggga aggacatggc 420
ag
```

<210> 1397

<211> 653

<212> DNA

<213> Homo sapiens

<400> 1397

```
ctgacctgct atcccacccc aaatttcagc ctgaggtata tttcagtga ggcaggtagc 60
tgtgcttctc agagcagaga agcagtttta agagcaaaaa ggtagaggaa atctagaaaa 120
gaaccgtctt gatacagatt tatcccatgg tgtgaaggga gggcaaagaa cccagtggca 180
cttcgcttat ccagcaattt ctgtcactgt ggtgaccaac ttctgcccg tccatagggt 240
cttgaactgc tcaggaactg ggaattcatt aaagtcaccg ccttctgtag gaatgaggac 300
attcatctcg gaagatttgg cactgactat ttcacaatcc aggggaattct tgctcaggta 360
agcatggcag ccactctgtt tggtgatgga tatggttggc actttaccca ttacctgaac 420
tttgacatcc ttactgttga ttatctccac aatgccacc acgtcatcga ataccaggcc 480
aagtttctta cagttatcta ctgtaatgga gttaattttg cccttgattt gcaatgtcgt 540
gttgacacac ttgtatatgt aagccacctg tttcagctct gtgtcctcaa tcaccagggt 600
ggaaacattt tcttgatttt ccctctccct tcttgccctc agttcaagta cag 653
```

<210> 1398

<211> 261

<212> DNA

<213> Homo sapiens

<400> 1398

```
aaaattataa ctactcattc tttcttttagc cttagataat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccatttacag ttgtaggttt gtaatgtata attatgtaat gcasaaacta 180
gctttgactt gtgtracgat gcactgtcaa aggaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g
```

<210> 1399

<211> 195

<212> DNA

<213> Homo sapiens

<400> 1399

```
ctgattttat ttcctttctca aaaaaagtta tttacagaag gtatatatca acaatctgac 60
aggcagtga cttgacatga ttagctggca tgattttttc ttttttttcc cccaaacatt 120
gtttttgtgg ccttgaattt taagacaaat attctacacg gcatattgca caggatggat 180
ggcaaaaaaa agttt
```

<210> 1400

<400> 1404  
tgaaggggtt cttggaagac ctggcacctc cagagcgcag cagcctaatt caggattggg 60



<400> 1408

```

ctgcctagtt gtagttgaca gacaacttta taagctctag tcaaccctat tgactaagct 60
tctgaaccac tagcatagtt ctagggtcag gcggatgcct actgtgggca ggaaagtgat 120
gcatgcatgt gtgggagcag tgtcttaatg tctgaaatag tagccatgag ctacatgttg 180
ctatggagca cttgaaatgt gggagtccaa attatcatgt gctgtgagtg taaaataata 240
tgtttctaag accgtgtgtg aaagaatata aaatatctca ttaaaaaatg tttatattga 300
gtacatgttg aaataathtt atatttgtga cacattgtgt taaataaaat attaaaattt 360

```

```

<210> 1409
<211> 208
<212> DNA
<213> Homo sapiens

```

```

<400> 1409
ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
agggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggc 208

```

```

<210> 1410
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<400> 1410
aaaaaaagga aaaagtttta ttacgaaact agtttgtata aaacaggggtt atacatattt 60
ttgtaagttt gtaataaaac agtaagaaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgar cagtatttaa taacatcatt aatacattaa caacatttct ataaagtaag 240
acacattggg gctgaagtac aactgggtggc ctcttgatct cacctatgag gagagtctct 300
tacamawcca catagggaaa attgcagttg taaggtgarc tacacatcta aaatatgcag 360
aggtaatagc attacatgtt aaagtatcaa gatatacaca tttt 404

```

```

<210> 1411
<211> 623
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 428, 469
<223> n = A,T,C or G

```

```

<400> 1411
ccacttgttg agatatgggg agcctacact ccggagggst gtacctttag cactggccct 60
catctctgtt tcaaatccac gactcaacat cctggatacc ctaagcaaat tctctcatga 120
tgctgatcca gaagtttctt ataactccat ttttgccatg ggcatggtgg gcagtggtag 180
caataatgcc cgtctggctg caatgctgcg ccagttagct caatatcatg ccaaggaccc 240
aaacaacctc ttcatggtgc gcttggcaca gggcctgaca catttaggga agggcaccct 300
taccctctgc ccctaccaca gcgaccggca gcttatgagc caggtggccg tggctggact 360
gctcactgtg cttgtctctt tcttggatgt tcgaaacatt attctaggca aatcacacta 420
tgtattgnat gggctggtgg ctgccatgca gccccgaatg ctggttacng tttgatgagg 480
agctgcggcc attgccagtg tctgtccgtg tgggccaggc agtggatgtg gtgggccagg 540
ctggcaagcc cgaaaactat cacagggttc cagacgcata caaccccagt gttgggtggc 600

```

ccacggggaa cgggcagaat tgg

623

<210> 1412

<211> 171

<212> DNA

<213> Homo sapiens

<400> 1412

gcggcgctgg ggggtgctgga gtccgacctg ccaagtgcg tgacacttct gaaaaatctc 60  
caggagcaag tgatggctgt aactgcacaa gtgaaatcac tgacacaaaa agttcaagct 120  
gggtgcctatc ctacagaaaa ggggtctcagc ttcttggaag tgaaagacca g 171

<210> 1413

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1413

aaaagtcata agggttttat tttgtatcat caaaatatctc tataaggtcc caaatactct 60  
ttttcaaccc atgaacagta agaatttgtg aattctgata atgaaaaaag ttttcctcca 120  
ggtatgtttg tttcacattc agtcctaaag ccttgagcta tgtgtacttc cctcacacag 180  
gaacaccag 189

<210> 1414

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 511

<223> n = A,T,C or G

<400> 1414

cctccccagc gcccaaaggt ctattacaag tacctataga cttttcacat ataagttcta 60  
gtgggtacaa gctttttttt tttttttttt tttttttttt tctattgggk atttcattca 120  
ttttgggggg ggaacaaatt ctacaaactg ctttaatat gkcctttttt tctaatactc 180  
acattaactt tttatgtaaa acataccaat gcttttaata aagcttacat aggaataaac 240  
tattatagac ctgcatagat ataagtaccc atgtattaat ctacattaaa ataattggatt 300  
ttattctgcg aaractccaa gttgctcctg ggkgctaagk gaagcactta gggaaatgtg 360  
ttcagtcctt gaggtcatag gaacattara ttatatcaaa ggaaacctgg agccatcagc 420  
taagtggccc ttctgtcctg tagatacata aaaactaatg ggctccgcta tgcggctcac 480  
tttctgctat tagatactat gaggcactaa naaaaaacta ctgcctgcat catatctttc 540  
ttcgggtttga gataaagaga atgg 564

<210> 1415

<211> 231

<212> DNA

<213> Homo sapiens

<400> 1415

ctgcgcttgg ataacaagta attcaacgca cgcacttaac agaaatgtta aactataaca 60  
agcaccattt gaggattaac aggaacattt ttttgaagat ttcaaacgaa ctgcactttc 120  
agtataattg tacctaaagt atttataaac agctcatcgg agcctctatt tgtcatagac 180

ttttgagttg attgttggga ccacataata ggaccatttt tttttgtctt t 231

<210> 1416

<211> 540

<212> DNA

<213> Homo sapiens

<400> 1416

```
cttgatttag gatctgtggt gcagggcaat gtttcaaagt ttagtcacag cttaaaaaca 60
ttcagtgatga ctttaatat ataaaatgat ttcccatgcc ataattyttc tgtctattaa 120
atgggacaag tgtaaagcat gcaaaagtta gagatctgtt atataacatt tgttttgtga 180
tttgaactcc taggaaaaat atgatttcat aaatgtaaaa tgcacagaaa tgcattgcaat 240
acttataaga cttaaaaatt gtgtttacag atgggtttatt tgtgcatatt ttactactg 300
cttttcttaa atgcatactg tatataattc tgtgtatttg ataaatattt ctctctacat 360
tatattttta gaattttca gaaatataca tttatgtctt tatattgtaa taaatatgta 420
catatctagg tatatgcttt ctctctgctg tgaaattatt tttagaatta taaattcaca 480
tgtcttgtca gatttcatct gtataccttc aaattctctg aaagtaaaaa taaaagtttt 540
```

<210> 1417

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 3

<223> n = A,T,C or G

<400> 1417

```
ttnatcatct aactgtggga tctatttcat ttctggaaat aacacaactt agttctaggg 60
ctttcatgca catgaaatat aaaacagctt agttgttctg aaaacatgac aatggttaat 120
tttattcaag tcccaacact gagttcagag cacttctcca taggccccat taatctctcc 180
aggtttctgg gagtatcatt aaatccctcg gcattcctta gaagcagggt cttagcaaac 240
atccagtttc caaatgagag tcagaggggc ttgatcctga aagtgtagta ttttctgcc 300
ttgtcctact ggtatagctt cttggaccta aaatctctct cctgctgagg 350
```

<210> 1418

<211> 425

<212> DNA

<213> Homo sapiens

<400> 1418

```
tgctaggcag ctttattttc ataaccawt tagggaaagg aaatttagga ttttcaaggc 60
tacattaatt tttcctccat caaatcttga tttgttcttg ataaaaatga gttcttttgg 120
ggaaattctt tcttttagaca ccaacttggg ttttctcatc ttccacagaa taattgaacc 180
cctgacctct agatgttcaa aattccgctt caagcctctg tcagataaaa ttcaacagca 240
gcgattacta gacattgccg agaaggaaaa tgtcaaaatt agtgatgagg gaattagctta 300
tcttggttaa gtgtcagaag gagacttaag aaaagccatt acatttcttc aaagcgctac 360
tcgattaaca ggtggaaagg agatcacaga gaaagtgatt acagacattg ccggggtaat 420
accag 425
```

<210> 1419

<211> 390

<212> DNA  
<213> Homo sapiens

<400> 1419  
aaactcttgc tattgaattg agatgattaa aatgggtgact taatccgtag ttatctttgca 60  
cccactgaaa ggaaagtgtc ttccagaata atatgaagta tctaaaagtgc tcaccttttc 120  
ttgcctgatc aacaatttgg gcttcctgtt tgtacaaggg gccatttggc atacctttca 180  
cagcttttat caggccaagt taaaggctga ctacattttt tcatcatgag gaaagcagtt 240  
gaaatgaggc atgagttact gtgcattggg attttagaac aattttcttg tgacagctct 300  
ttttgtgaag ttaggttctt aaaagtgtcc atgatggtca cttaaaatgt gcagtaatag 360  
cactgccagg atcaagcatg aaaggctttt 390

<210> 1420  
<211> 480  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 322  
<223> n = A,T,C or G

<400> 1420  
ttgctgaaca atgacatcgt tttctccagg ggttgaaatc catgtccatg gctgacaacc 60  
caacaaggct gggacccaaa ttcgtacaga gatgaggcag agtggagaga aacaactctg 120  
gctgagccag agtctccagc cactacttct tattcctggg ctttagctct tcggctgcat 180  
tacgcaggaa aatgtaattt tttttctggg gattataaaa ttcattgtcc tttgaccagt 240  
cgtagctgga agcgtatgca aatatgtttc cattgygatt gaaacagcaa gctgasatgg 300  
gctgayctaa ctgttccgaa gnttttagtt ttgktctggc atctttgycc cagaagctga 360  
atctaccatc agatcccaca gttgcaaggg tgccatgaac aggatggaac gccgattcca 420  
tttaccgcga taaatgycct gaggagctga agtggttggt ccattagatc gatgacattt 480

<210> 1421  
<211> 453  
<212> DNA  
<213> Homo sapiens

<400> 1421  
aaactgattg aggtcacagt attttattat ttggggctct caccacagga aacactgcga 60  
tacaggggca aaagagatgg cagtgccaat taaattaata caacaaaatc aatgcagcac 120  
caaccaagac tgccaggctc ggtgtcatgg gtatgccag agcccaggag ttcagaaggg 180  
ccctaagcct gatttaatgc tctgctgttg atgtcttgaa attcttaaca atttttgaac 240  
aaggggcttg cgttttcact tcgcactggg ccttgcaaat tacatagcga gtgctcataa 300  
aagaactcag aaacgtggta cctctcttcc tgggtggatac aaataaagaa atctggatcc 360  
aaagttgaaa gttgctggcg atatcattca agtaggactc taaatagtgg attaagatga 420  
gggtgggcct ggtggaagat tctttccagc ttt 453

<210> 1422  
<211> 542  
<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature  
 <222> 4, 151, 166, 220, 231, 308, 349, 364, 511, 528, 537  
 <223> n = A,T,C or G

<400> 1422  
 ttttcttgac cactatacgg cacaacctag gggstgtawa aaacctascr caatgcagaa 60  
 ggggtgaagct tcatgacaat tgggtctcggc aataatttgg gggatgtaac atcaacgaat 120  
 cagacaacaa aagcaaggga atacacatgg nactaaatca gtgtgnggaa aaatatccca 180  
 aacaggcaaa gcacaacatg gamtagatat atgcacattn atggaccctg naggcakkac 240  
 tcacaaacat actacctggg aagcamctgg acctttaagg gatgaggtag attcaacaaa 300  
 cagggcancg tatmttcac tgggatagca ttccagcctt aaaaataang aaatcttgaa 360  
 aagnactaca ataaggacaa atctcgaaca cattctgtta agtaaaacaa gacaagccaa 420  
 aaagggaaaa ctgtataatt acacctatgt aaaatattta gtcaaactca aagaaaccaa 480  
 gtgtttagt ctcagcaggg caccaagatg naaacagtct ctcatagnct gagatangca 540  
 tc 542

<210> 1423  
 <211> 252  
 <212> DNA  
 <213> Homo sapiens

<400> 1423  
 ttaatgccaa atggcaaagt tgcattccgtg gaaatgggta aatatcatca ctgtcgggat 60  
 gaacccctgc acgccctcta tgacaatgtg gagaaactct ttccagggtt tgagatagaa 120  
 actgtgaaga acaacctcag gatccttttt aataatgctg taaagaaacg tttgatgaca 180  
 gacagaagga ttggctgcct tttatcaggg ggcttgact ccagcttggt tgctgccact 240  
 ctgttgaagc ag 252

<210> 1424  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<400> 1424  
 tttccactct gcacattgta gaggggaacac tctgtaggcc catgggtccc ttactagaga 60  
 ggttgagtga atttgccttc agttaacatg ggaccttctg tttagcttcc tcttgcttcc 120  
 caaagatttt aagcattttg taaatgtata aactcacctc tggtaacagt ggcccagacg 180  
 ctgctttgtg ctaaaagcat gggaaatgta aaggcagtct ttctctggga aatggatgct 240  
 attctattct gctgccccta cctgttctctg agg 273

<210> 1425  
 <211> 618  
 <212> DNA  
 <213> Homo sapiens

<400> 1425  
 aaaaaccttg tatagcaaaa taacttaaaa ccctttgtga tatcatctta ccagtttatt 60  
 tggtaaaaaac aaacagttat ttggtatttg tcagaattct tcagtgcctg ctattacagc 120  
 tattttccaa ttactaattt gattatactc actcaaggca gtgcaagatc ttgaagtact 180  
 ttttagcagt taagtaatat tgaattgtat tgaatagttt acatagttta ttctagtctt 240  
 tgaaaattac tgaacatgga caatgtgcat gtcattgaca tctgccttag aacttctggg 300  
 acaatcctga ttcgagagat tctatcccat tattttacata taccaaaaat actttgttaa 360  
 tttaatgtgt tggcttccca actcctgaac acgacacaat tttattatta gattttgtat 420  
 ggtgatttta ggctatgaaa acatgatcat tatatgtata tagatacatt tttatttggt 480

<400> 1429  
ccactagtc antttngtgg aattctgaag ccttaattgc ttatatccat gtttctagtg 60

```

aatgagagg gtataacaaa aaagagaaca ggaggaaagc ttcgctgtgc ctgaggaaat 120
aatctagtca aggcagcaag tctggatagt gctatagaga tgagatacct gagcagttcc 180
agaggaagag gtggagatca gaggccagtt ttcagtgaac actgtaaaga aaagccagat 240
gatgtgtcct gga                                     253

```

```

<210> 1430
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 1430
aaattttact agtgttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgccct 60
aaatgtttga tctctgtttg tcattacttt ttcaaaatta ttttttctg taaagtataa 120
tatataaaaac ttcttgctta aattgaattt ctatattagt ggttaattgc agtttattaa 180
agggatcatt atcagtaatt tcatagcaac tgttctagtg ttttgtgttt tt          232

```

```

<210> 1431
<211> 734
<212> DNA
<213> Homo sapiens

```

```

<400> 1431
cattatacaa cactatattg ccaggtcaaa gagggcaggg acgtaaatgt aactaaaaat 60
gcmaatgtat cccaaagaga taaaacaaat tccatttaca gcatgaaggt ttacaaatgt 120
acacctgtac aaccaaggaa agcatcacta ctaaattagc aaggctttta taataaacat 180
tgaaasaaga tttcctttca aagtgtaaac ttacatctat tactacacac acaatgcata 240
tattttataga aagcaaaaag agctatctga atatgtaatc atgcttaaat gctgagctat 300
caaattcact tttcagtggt cccttttcat ctctatctgg ttcctacttt ctgcctctat 360
gaaaaagcaa aataaagctc aacacttcct caacatgtct gtaattctat aagcaaaaca 420
aaatacaaat ttccactcct tctcattgca aaccaaactg aaaagttaat aagtgactta 480
acttttcatt tagtgcaact aattggaagt gtcaccatga ttttgtattt aactcttaca 540
acaattacat atgtaagtat atacaatatt tctgtacatt gccagagaca ttttagggca 600
gtaattgtat taaaaccaca tctactgtaa ataatgttag gttcttttca tctcaaacca 660
ctttattcctt gctactttac tcgttatttg catgatagtt tgtgaattat caaaatacaa 720
cttaactcctt taaa                                     734

```

```

<210> 1432
<211> 542
<212> DNA
<213> Homo sapiens

```

```

<400> 1432
tttaagaaag agcctttgag aaacatgcat acttttctct tttctcctat attcaatact 60
catatagcct aaaagatgga aactgggttca agaattttaa tgacttggtc cctaaaaagt 120
taatctcctc acctttgtga aatatatcaa gtgcttttcta taaataaggg caggaaatgc 180
taacttcata agcatagtc tagtcattaa aataatttga tcatcttcta aaattttaagt 240
atgatagtaa cacagtaata tggaaaatct caatatactt aacacttcct aaacagcaca 300
atgaaatgtt gttcaagggtc tgaattaatt tgctacagga cctaagcaag tctgtttgct 360
tatcttttgg ctttaaaatt ctttaagtct aaaatggtga taattttaga ataaactgac 420
aatgtgggga acaaacttaa attcacaac actaccata tgctcaaaaa ctctctggga 480
taattagttt cttcattgta actattgatg tactattatt tcatctttcc attagctcta 540
ct                                     542

```

```

<210> 1433

```



```
<210> 1437
<211> 171
<212> DNA
<213> Homo sapiens
```

<400> 1441  
ttaagtcttg gagtgttcac ttctgagcct gaattccctc ccttgcaaaa tgggggaata 60

```

ccctcctcag aggggtccctg cgaggggtgag gggagattca gcatggcagg tgtgctgggc 120
acggcagggc ctgggaaggg cagatccctt ccccatccct gccacaaaca acccaaacct 180
ttaaaggaga gcaatggcct tgtgtcaaaa acaaaaacaa aacaaaaccc tgtcctagga 240
gactggggcc ctaatttcta atagcaagcc tttatgagtc cctaacactc tactgggctg 300
agtatctcac acgccagagg ataacctgcc ttctgtcac caccaccccg tagtagttgt 360
cattgtgtcc atttcacaga tgaggcaaag gctcagaaga gtcattgtgt aaaccagctt 420
ctagagccca tgcaggagct gcagggtggga gaatcacctc taggtgctct tcccatagaa 480
tcctcacctc ctgagtgtca ctcaactcagc ttccaatggg tgtgtgacct ttgaccagct 540
ttcttcctct ctgggcctca gtttccacc tggacaaagt aagaggctct ttggcttcan 600
gtaagttctt cctaaacttc tttttcctt tcatttgagc atcctcttca tttttgccac 660
ctctctgtca tttacaggct tttt                                     684

```

```

<210> 1442
<211> 166
<212> DNA
<213> Homo sapiens

```

```

<400> 1442
aaaaaatcag cccctaattt ctccatgttt acacttcaat ctgcaggctt cttaaagtga 60
cagtatccct taacctgccca ccagtgtcca ccctccggcc cccgtcttgt aaaaagggga 120
ggagaattag ccaaacactg taagctttta agaagaacaa agtttt                                     166

```

```

<210> 1443
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<400> 1443
tttgcctgtg caaaagaaga gctaaagaca gttatataaa aattaagggtg ggctttcaga 60
ctgggctaaca caacaacatt ccattgagtag atggtaattt atttttgttt atccatttcg 120
ttggggagcaa ggacaaaaat gtaaattctac accttgctta tcaaaattgc cgaaaaaaga 180
atgctctgcc tttt                                     194

```

```

<210> 1444
<211> 96
<212> DNA
<213> Homo sapiens

```

```

<400> 1444
gagagtcgag agtggggagaa gagcggagcg tgtgagcagt actgcggcct cctctcctct 60
cctaacctcg ctctcgcggc ctacctttac ccgccc                                     96

```

```

<210> 1445
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 1445
gggatgagct gaccaagaac cagggtcagcc tgacctgcct ggtcaaaggc ttctatccca 60
gcgacatcgc cgtggagtgagg gagagcaatg ggcagccgga gaacaactac aagaccacgc 120
ctcccgtgct ggactccgac ggctccttct tctctacag caagctcacc gtggacagga 180
gcagggtggca gcaggggaac gtcttctcat gctccgtgat gcatgagggt ctgcacaacc 240
actacacgca gaagagcctc tccctgtctc cgggtaaatg agtgcgacgg ccggcaagcc 300
cccgtcctcc gggctctcgc ggtcgcacga ggatgcttgg cacgtacccc gtgtacatac 360

```

ttccc

365

&lt;210&gt; 1446

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1446

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| tctggaaagt | tcttgctcgg  | gtcccttcac | ctccccgcc  | tttcttarag | tgcagttctt | 60  |
| agccctctag | aaacgagttg  | gtgtctttcg | tctcagtagc | ccccaccca  | ataagctgta | 120 |
| gacattgggt | tacagtgaag  | ctatgctatt | ctcagccctt | tgaaactctg | cttctcctcc | 180 |
| agggcccgat | tcccaaacc   | catggcttcc | ctcacactgt | cttttctacc | attttcatta | 240 |
| tagaatgctt | ccaatctttt  | gtgaattttt | tattataaaa | aatctatttg | tatctatcct | 300 |
| aaccagttcg | gggatataatt | aagatatttt | tgtacataag | agagaaagag | agagaaaaat | 360 |
| ttatagaagt | ttgtacaaa   | tggttt     |            |            |            | 386 |

&lt;210&gt; 1447

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1447

|            |            |             |            |            |            |     |
|------------|------------|-------------|------------|------------|------------|-----|
| aaaattataa | ctactcattc | tttcttttagc | cttagttaat | ttgagcagaa | gccacaacaa | 60  |
| gcaaaccaca | ataaatttag | aattggcaga  | aatccacatt | aactcctctt | cccaagtttc | 120 |
| cacactacta | ccatttacag | ttgtagggtt  | gtaatgtata | attatgtaat | gcagaaacta | 180 |
| gctttgactt | gtgtaacgat | gcactgtcaa  | agtaagcaaa | gtaagaattg | aaattccaca | 240 |
| ttcccagaat | ttaacactca | g           |            |            |            | 261 |

&lt;210&gt; 1448

&lt;211&gt; 404

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1448

|            |            |            |             |            |            |     |
|------------|------------|------------|-------------|------------|------------|-----|
| aaaaaaagga | aaaagtttta | ttacgaaact | agtttgtata  | aaacagggtt | atacatattt | 60  |
| ttgtaagttt | gtaataaaac | agtaagaaaa | aaaaggcagt  | aatagaaatc | tccaaaaggc | 120 |
| aacctatcaa | aaccaactgg | ctgccacttt | gagtttggac  | agtagctgca | taaactttgt | 180 |
| tcttcttgaa | cagtatttaa | taacatcatt | aatacattaa  | caacatttct | ataaagtaag | 240 |
| acacattggt | gctgaagtac | aactggtggc | ctcttgatct  | cacctatgag | gagagttctt | 300 |
| tacaaaacca | catagggaaa | attgcagttg | taagggtgaac | tacacatcta | aaatatgcag | 360 |
| aggtaatagc | attacatggt | aaagtatcaa | gatatacaca  | tttt       |            | 404 |

&lt;210&gt; 1449

&lt;211&gt; 230

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1449

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| aaaagttcta | gtggtacggt | aggagctttg | caggaagttt | gcaaaagtct | ttaccaataa | 60  |
| tatttagagc | tagtctccaa | gcgacgaaaa | aaatgtttta | atatttgcaa | gcaacttttg | 120 |
| tacagtattt | atcgagataa | acatggcaat | caaaatgtcc | attgtttata | agctgagaat | 180 |
| ttgccaatat | ttttcaagga | gargcttctt | gctgaatttt | gattctgcag |            | 230 |

&lt;210&gt; 1450

<211> 194  
 <212> DNA  
 <213> Homo sapiens

<400> 1450  
 aaaaactcct tttggtttac ctggggatcc aattgatgta tatgtttata tactgggttc 60  
 ttgttttata tacctggctt ttactttatt aatatgagtt actgaagggtg atggagggtat 120  
 ttgaaaattt tacttccata ggacatactg catgtaagcc aagtcatgga gaatctgctg 180  
 catagctcta tttt 194

<210> 1451  
 <211> 106  
 <212> DNA  
 <213> Homo sapiens

<400> 1451  
 aaagatgaca aatactgggtt aattagcaat ttaagaccag agccaaatta tcccaagagc 60  
 atacattctt ttggttttcc taactttgtg aaaaaaattg atgcag 106

<210> 1452  
 <211> 349  
 <212> DNA  
 <213> Homo sapiens

<400> 1452  
 ctgcagatcc tgcggaacgt caccaccac gtttccgtga ccaagcagct cccaacctca 60  
 gaagccgtgg tgtctgctgt gagcgaggcg ggggcgtctg gaataacaga ggcgcaagca 120  
 cgtgccatcg tgaacagcgc cttgaagctg tattcccaag ataagaccgg gatggtggac 180  
 ttgtctctgg aatctggtgg tggcagcatc ttgagtactc gctgttctga aacttacgaa 240  
 accaaaacgg cgctgatgag tctgtttggg atcccgctgt ggtacttctc gcagtccccg 300  
 cgctgtgtca tccagcctga catttaccac gtaactgct gggcattta 349

<210> 1453  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 1453  
 aaaaataatg tgcaagagca tcatgagaaa gaagaggggt gaagagataa tccagaggaa 60  
 catcaaagt aagagtatac actcaaagac aggtttaaga aagaccagtc agagaagtaa 120  
 agaaaaaat caagcaagaa taatgttgca aaaattaaca agaaagttgc aagcccagag 180  
 tggttagcaa tgccaaacta ccatgagtaa gccacataaa acaagaactt tgggttcaac 240  
 tgctttaaca atcagacctt tagattcaca taacaggagt taaaaatta agagcctctt 300  
 tt 302

<210> 1454  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 1454  
 caagcgtaaa ccgcgggagc cgagcccagc taggaatgca gacctcctga aaaccaagcc 60  
 gaggactgcg gggtcgggtg tccacgcaga gtgtcagctt cctctgggtg aaccagcaag 120  
 tcttccagta tgaatccac agaaaccaag gctgtaaaaa cagaacctga gaagaagtca 180

```
cagtcaacca agccaaaaag cctacccaag caggcatcag atacaggaag taacgatgct 240
cacaataaaa aagcagtttc cagatcag                                268
```

```
<210> 1455
<211> 207
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 29
<223> n = A,T,C or G
```

```
<400> 1455
ctgtcgagag cagccctgcc caagawtgnc ggggtggggc tgggtgccaac ggggttccaa 60
ggscctttcm actttkgaak ggctggartt cttgggaaac cmaaacsctg actacctgsc 120
ttttttcttg ggcatygacs tgcttcattt ccaaaaratga tggkgcagggt gaccttttcc 180
atcgtgagct aaaaaaaggt taggagg                                207
```

```
<210> 1456
<211> 181
<212> DNA
<213> Homo sapiens
```

```
<400> 1456
aaattttctgt ctgctaaaaat ctatcaaata cattaaggaa aagtccact tggcacatct 60
cccacaccag atgttaatta ttcatactgc atgactgagg attttgagg cagagagaga 120
ttcatctgca atatttgga caccaatgga ggtctacgtc aacacagaat ttatacagca 180
g                                                                181
```

```
<210> 1457
<211> 309
<212> DNA
<213> Homo sapiens
```

```
<400> 1457
aaaaagwtca gagttgaaat gcctttcaac cattkccctc tgttggtcatt tttcttgctg 60
cctttttcac ccaagattca gcagtcagat gtttactgca cacctattac ctattatttg 120
ctgttcttgc atggttcaaa ccaccattct gtagccaccc atcctttgcc ttatctaaca 180
aacatttttc caggaagggt gaaaaggaag tggtgctctc attgtgtgac tcagtgtgtc 240
tgtccatccc atggaaacat gggcacaatc aagtatttgt ccagcctatt gcaggctttt 300
cctgacttt                                309
```

```
<210> 1458
<211> 117
<212> DNA
<213> Homo sapiens
```

```
<400> 1458
aaagactatt gagaaatagg aaggtattga gagattattg gggtttcatca kagcagactt 60
aagtagcctg gttgatttta gatttgtcac agcaaaatca tgcttgatg ctcgagg      117
```

```
<210> 1459
<211> 575
```

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 371, 379, 428, 469, 498, 506  
<223> n = A,T,C or G

<400> 1459  
aaagaatgca taccagaaca tttataagca gtggagtgag kthtattaag aatagtacta 60  
ctacaataaa cgctggctaa ataagaagtg cattatgtga agcactatgg gtggtatatg 120  
cttwgmcaca tactctkgtt accttgaggy agatmacrca tgkgaaccaa cttcggcata 180  
catttttcagt tgctgcgagg aatcatgtgt tttaacgaaa tgcgtcagta tgaaaaactt 240  
gaaaaatattc atgaatgawg aacgcmntag gaaaaaaata kstattctca tgcaattatg 300  
tacagtctca ctgtgtarat ctcaaggcaa ggtttgcctc ctgtaaacca gatcaagggtg 360  
ctatgagaga ncgccytgnc ttattgcatt tcttttctcc tmctgcgccca gcattatatt 420  
gctctagnct ttatttttgt gtgcacaactg acatgccatt aaaratgang ractatctca 480  
catgtagaaa argaaagnmc ttggankcta cctcagggtcg ctaccacgct aaggggyaat 540  
tctgcaggat atccatcaca ctggcggcgc gattg 575

<210> 1460  
<211> 444  
<212> DNA  
<213> Homo sapiens

<400> 1460  
ctggggggttc cttccttcac gttgagaacc tggagcagag agtctaccaa cttagaagaat 60  
attagaaaga gttcagcaaa cagagtgagc tgaagtctaa tcttagaagt aaatccattc 120  
ctacaagtca tcagcatcac ttgggagcct gttagaaagg caaattcttg gttcagccta 180  
acacctacta aatcagaaac tctgggggcg gagcgcagca atctgtactt tcacaagccc 240  
tgcaggtgat tctgagcctg taaaatttga gaaccagagc tgtccccag gagataaatt 300  
aacttctact tttttttgag ctactgcatt ttgggatcct attgttttat cagcttaaca 360  
tgcacacctga tatgattact caggtaggtt tcaaccaatg ttggttaatg tattatcccc 420  
aggaacttat tactagagga gcag 444

<210> 1461  
<211> 536  
<212> DNA  
<213> Homo sapiens

<400> 1461  
ctgcaaccct gggactgacc gggaggctct gattatttac ccmaccacag gtaggttggtg 60  
ttctgaatct cagggttcaca ggttaagggt cagcatcctc atcctccacg ggggttgaggt 120  
tgttgctggt gatgaagggt ttgggtggct ctgcatagac tgtgatcgtc gtgactgtgg 180  
tcctattgag gccactggct gagttatttg cctggcaggt atagagtccg ctgttcttct 240  
cagtgatgtt ggagataaag agctcttggt tgtgttgctg gatgttccca tcaatcagcc 300  
aagaatactg tgcaggtggg ttagaggctg catggcagga gaggtgagg ttcacccctg 360  
gacggtaata ggtgtatgag ggggaaatgg tgggkerc ygggcatag aggacattca 420  
ggatgactgr gtogctgtgs tyarcactta atkcgttctg gattccacac tcataggggtc 480  
ctacatcatt ccttgtgaca ytgartagag tgagggtcct gttgtcattg gacagm 536

<210> 1462  
<211> 409  
<212> DNA

<213> Homo sapiens

<400> 1462

```
ctgakagacc aggagaagtt ccagatgcag agactgtgat gctcttgact atggaattat 60
tgcggccagt agccaagtta gagacaaaac aggcataagg cccgttatta tttggcgtga 120
ttttggcgat aaagagaact tgtgtgtgtt gctgcggtat cccattgata cgccaagaat 180
actgcgggga tgggttagag gccgagtggc aggagagggt gaggttcgct cccgaaaggt 240
aagacgagtc tgggggggaa atgatggggg tgtccggccc atagaggaca tccaggggtga 300
ctgggtcact gcggtttgca ctactgagt tctggattcc acatacatag gctcttgctg 360
catttcttgt gacattgaat agagtgaggg tcctgttgcc attggacag 409
```

<210> 1463

<211> 502

<212> DNA

<213> Homo sapiens

<400> 1463

```
ccttcagcct ggatccttta tattaagatc aatgaggacc atttctggaa gatgtctggc 60
atggtacaga ctgtctgagg ccractgaac acaggccctt accctgattt tatcagtga 120
aagctatggg actagtttcc ttacctctaa aatggagaga ataatagaat cttccgtcta 180
agactkctgt gagcataagc cgagaaaatg gaggtaaact gcttagccca atacttggat 240
tatcgtaaatt attcagtaaa actagccacc gttgttattg taattattat tttgtatttt 300
attatacatt tcatggaaac ttaaaagtta gtgataatca cctcattttc agttgccttg 360
ctttcttcct gtaaatTTTA ttctctctta tcttgctcac tgtctttaag cattgccagt 420
ttagtataat tattttcccc tatcctctat aaaatcatat acaggatgga tttgttgatc 480
tcagacatgt tcaactgagtt tt 502
```

<210> 1464

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1464

```
ggcggctcgg actgagcagg actttcctta tcccagttga ttgtgcagaa tacactgcct 60
gtcgtttgtc ttctattcac catggcttct tctgatatcc aggtgaaaga actggagaag 120
cgtgcctcag gccaggcttt tgagctgatt ctacagccctc ggtcaaaaga atctgttcca 180
gaattcccc tttccctcc aaagaagaag gatctttccc tggaggaaat tcagaagaaa 240
ttagaagctg cagaagaaag acgcaagtcc catgaagctg aggtcttgaa gcag 294
```

<210> 1465

<211> 249

<212> DNA

<213> Homo sapiens

<400> 1465

```
gtgcaggtct tcagccgtga cccggtaccc cagctctaag ggaggtggca gcatcaaagg 60
ctccccctgc ctgcgtggca gcaggggaat cttgcgtcta cggggcctag agtcatggga 120
tctgggggag ccacccctgg gggcaagtgt ctgccctggg gctgtacctg ccttgttttc 180
acagcgggtga cccgaagaga cagcctgagg tccgtcctca ctactgtgt ttgaggaact 240
gtgggccag 249
```

<210> 1466

<211> 203

<212> DNA



<213> Homo sapiens

<400> 1466

```
cctcagacac cttttaattg cttaggagaa accattgtct ctgactgcag gtttgaataa 60
gttgaagacc agagaaaagt acacactggg ctacaaagga atttggagat agccaaggaa 120
caggatttcc cctagcaagc taccttctgt tcaaactcatg aaaaaagact atttcccctt 180
agaataggga agcttgctat ttt                                     203
```

<210> 1467

<211> 223

<212> DNA

<213> Homo sapiens

<400> 1467

```
ctgtcagaac aggaacgacc tgggttatgg aagcccagaa agggaggagg acttcttttg 60
gtcccagtga aagatgcttc cagaatctgt agccttactt atttgcttgg atctcactgg 120
aataacttgg tggtgaggct accggttctg ggggtgatcac tgggtttgct gcatagatgt 180
ttggatagat gacactcaca ttgcttgatt gacagcagac caa                               223
```

<210> 1468

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1468

```
ctgcattatg tgtgttttaga acgagaagtt gtttgtacag tatttttcta ttgaccgctt 60
ccgtcttgcc tgaaacctgg gcattctttc caatagacag aaaatcacag agtcaaactt 120
gatgcgcaat gagttgttct gagaccagta atccacggtg ctgcaatttg ggttttt 177
```

<210> 1469

<211> 185

<212> DNA

<213> Homo sapiens

<400> 1469

```
ctgaagctga gaagtagcct atctatggar gagacttttg tttgtgttta attagggcta 60
tgagagattt caggtgagaa gttaaacctg agacagagag caagtaagct gtccctttta 120
actgtttttc tttggtcttt agtcaccag ttgcacactg gcattttctt gctgcaagct 180
ttttt                                             185
```

<210> 1470

<211> 482

<212> DNA

<213> Homo sapiens

<400> 1470

```
ctgaccagga gggacggttc tgtggacgag gacttcgtag ctgaggagcc agatttcttt 60
ttggtccctt cctcctggaa tggaatcgtg gcgctactgt ggagatctga gttgatgtag 120
cacctgcttc ctcgatgta gtccgcaccc cggaccagat gccgctcggt cgtgggtctg 180
gagaaccggt atgggggaga ggagctctct tcaatgatcg gaggaatccg ctcgttactg 240
aaataccggc aaagggcatc ctcccctttc ctgccatgac ctcgaggtct ggcaaaaggg 300
tcacaatcc ccatccagtt cccatcagca ggcattggaca aaggccgtgg cttgccttca 360
gagggacgag aaagaagggt acaagtttga tgagttctgg aacttttagt aaccgttccc 420
tttatgtata acttagacct cacaatacca caccactta gacagaagca ataacaatt 480
```

482

|            |            |            |            |            |             |     |  |
|------------|------------|------------|------------|------------|-------------|-----|--|
| <400>      | 1471       |            |            |            |             |     |  |
| tgtgtgaact | tagactkwtc | aattcaacat | ttttaacrt  | tkaaatacta | ttgtgaattc  | 60  |  |
| aatgaagtgt | tcttatgcc  | ctaacttta  | cctattccct | tactcamgga | tgtagggyaaa | 120 |  |
| rgatggtaac | aatacactat | tkggcaagat | aatgtmctga | catmtytagc | aatstttttt  | 180 |  |
| gmcagtggct | tkcaactgma | mwkaaskkam | mkaatattgy | tkctgtwsgt | arattattat  | 240 |  |
| tctgwywyta | atcattt    |            |            |            |             | 257 |  |

|            |             |            |            |            |            |     |  |
|------------|-------------|------------|------------|------------|------------|-----|--|
| <400>      | 1472        |            |            |            |            |     |  |
| cttttgcgag | cctctgccgc  | agcagctccg | ttttcacgcg | catctcgttt | ttgtgtgtgt | 60  |  |
| gtttttgttt | tgtttttgtt  | tttgtttttt | tgtttcagag | aattggaagc | taaagctacc | 120 |  |
| aaagacgtag | aaagaaatct  | tagcaggtaa | gatgggcgag | ctttccgtct | cccgccccac | 180 |  |
| gataatcgta | tattttctact | ccgattccgc | ctttctgggt | tgagaagttc | ccccgtgaca | 240 |  |
| ttttcttccg | cacccggaga  | gcagacattc | gggagaagcg | gcctggggga | atactggagg | 300 |  |
| gattgcgggg | agatgcgtaa  | ttacgcgtgt | gtttctttct | tt         |            | 342 |  |

```
<220>  
<221> misc_feature  
<222> 435, 442, 454, 462, 476, 524  
<223> n = A,T,C or G
```

```
<210> 1474
<211> 187
<212> DNA
<213> Homo sapiens
```

<400> 1474



```
<210> 1478
<211> 421
<212> DNA
<213> Homo sapiens
```

```

<400> 1478
aaacctatac tcactttccc aaattgaatc actgctcaca ctgctgatga tttagagtgc 60
tgtccggtgg agatcccacc cgaacgtctt atctaatacat gaaactccct agttccttca 120
tgtaacttcc ctgaaaaatc taagtgtttc ataaatttga gagtctgtga cccacttacc 180
ttgcatctca caggtagaca gtatataact aacaaccaa gactacatat tgtcactgac 240
acacacgtta taatcattta tcatatatat acatacatgc atacactctc aaagcaaata 300
atTTTTcact tcaaaacagt attgacttgt ataccttgta atttgaaata ttttctttgt 360
taaaatagaa tggtatcaat aaatagacca ttaaccaana aaaaaaaaga aaaaaaaaaa 420
a                                                    421

```

```
<210> 1479
<211> 214
<212> DNA
<213> Homo sapiens
```

```
<400> 1479
ggaaatatat aataaaaatg ttaaccagaa ggtaaacttg agtgtaattg tcagacagac 60
acacttttcc accagtgtat ttgaatttta gccagtgac cctgttttgt ggcattcatg 120
caaaacatgc tgagggcttt gttcatctgg tcactgtgtc caaatttcag tcatgtttgt 180
aqcaagattt tggaagcatt catatttcct tttt 214
```

```
<210> 1480
<211> 434
<212> DNA
<213> Homo sapiens
```

|            |            |            |            |            |             |     |  |
|------------|------------|------------|------------|------------|-------------|-----|--|
| <400>      | 1480       |            |            |            |             |     |  |
| ggaggccgct | tacgtaaagc | ccaggggaca | ttcaacagcc | cctactacc  | aggccactac  | 60  |  |
| ccaccaaca  | ttgactgcac | atggaacatt | gaggtgccca | acaaccagca | tgtgaagggtg | 120 |  |
| cgcttcaaat | tcttctacct | gctggagccc | ggcgtgcctg | cgggcacctg | ccccaaggac  | 180 |  |
| tacgtggaga | tcaatgggga | gaaatactgc | ggagagaggt | cccagttcgt | cgtcaccagc  | 240 |  |
| aacagcaaca | agatcacagt | tcgcttccac | tcagatcagt | cctacaccga | caccggcttc  | 300 |  |
| ttagctgaat | acctctccta | cgactccagt | gacccatgcc | cggggcagtt | cacgtgccgc  | 360 |  |
| acggggcggt | gtatccggaa | ggagctgcgc | tgtgatggct | gggccgactg | caccgaccac  | 420 |  |
| aqcgtagac  | tcaa       |            |            |            |             | 434 |  |

```
<210> 1481
<211> 131
<212> DNA
```

<213> Homo sapiens

<400> 1481

```

aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttgata 60
tcaactagag ctgaggcttt gactttttac tcattaaaac tagttgttac aggaactacc 120
ttagatatt t                                     131

```

<210> 1482

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1482

```

tgctcgctcc tcagaggctg aaaacatgag aagctagggtg tggtgaaacc aaagcagctt 60
tattgttcaa atgctaaaga cgggaggatg gactggctca agccttaaag aaaccatctc 120
gactttttga actcagtga cgggtttaag gaaaacgtgg gaaatatgca aagggtggtgc 180
aggaggggtgc aggtctgtgt gtcttattcc catggatatc ttgagtaatc gcttgtccag 240
aggtgggggtt tgtgtcatcc tgaattcaac ccagcaatgg tagggtagctg ttcataactc 300
accctaagcc agaagattcc tcag                                     324

```

<210> 1483

<211> 393

<212> DNA

<213> Homo sapiens

<400> 1483

```

atgtttaatg aatgatacag gatacatccc tgttggaagc ttgcaaaaga cacatacact 60
gtggtacata tttgatattaa tagaagttgt ttatcaggct atatatatat ttgccccaaac 120
atgcaccaca ggataaaaata actattttaca taacatagggt tatttaattg acatagacta 180
tcagcttttg tgagagcaga agatggcaaa gcaatactgc agcagaaaagt ggaacaacta 240
ttctaaagca atacttttaga tatatttttc tagaatggat ttattagatt actttttgga 300
aagcatttga cctaaattaa atatagagct ctgaaactta gaataaaaatt tgcacttgct 360
gaaacagaat actttgcata aaaataatcc ttt                                     393

```

<210> 1484

<211> 323

<212> DNA

<213> Homo sapiens

<400> 1484

```

ttagatcag aaagtttgag gtcttcatca gcagacactc gtgcttctat ttttcttggt 60
ttatcgaaca gttctgaaac tttgagaaaa aacttgcata tatctgtaga atcctgagtt 120
cctaaagcat ataatagaaga accaattcta ttgtaatcat ctgcagcact tttgtgggat 180
cttgtcattc tatcagattt agcagatgca tccttaactc ggttatgata ttccaaaaga 240
aatgttcgtt cgtgctcaaa gaaatcatct acatccttta ctctgaaac gattactcca 300
tctgctgatt taaccatggt ttt                                     323

```

<210> 1485

<211> 405

<212> DNA

<213> Homo sapiens

<400> 1485

```

aggagcgtca ggaaaacacg ggcagcctgg gctctgacct gagccactcc aactccacgg 60

```

1001754106204

```
<210> 1486
<211> 230
<212> DNA
<213> Homo sapiens
```

```
<210> 1487
<211> 273
<212> DNA
<213> Homo sapiens
```

```
<210> 1488
<211> 452
<212> DNA
<213> Homo sapiens
```

```
<210> 1489
<211> 653
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 556, 562, 568, 573, 589, 592, 632, 637, 645  
<223> n = A,T,C or G
```

```

<400> 1489
cctgctcttc tcttcaaagc acttagtaca cagggktaca ggtgctacca cttggattcc 60
ccagagcatg gaagtctgat cccagggtga acatatttct tctgaaaatg agcatcttgg 120
ttctatagat tcttatcttg ctcacaggac ttgctccaaa actgaatttt cagaagcagc 180
atgataggga aagagatatt caactctgac agacaaggta gatcgaagca cccacactaa 240
tttctttcag gtgccccatg aggaagactg catcatgtca cttccactca cttggggaga 300
ttctaggact gagacacaaa gttccccag agtttctgct aatggaaggg gaaacagggtg 360
gtttggaatg gaaagggtga accagggtcca caaaatgtgc tccctctgct caagactgac 420
tttggtcttc ccagggtcccc acttgacttt catataagct gagatgacct attacgggaa 480
aaattaggga acacctaata aaaccaactt tcaaaaactc ctatttatca tggatgtgcc 540
acgatcgaga gaatcnaaca cnaactgnct gtnagagagg ccttcattnt gntcatctt 600
gagctaaaaat cctgrcttgg gatgccagaa ancatgnccc tcttntcggg ttg 653

```

```

<210> 1490
<211> 363
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 347
<223> n = A,T,C or G

```

```

<400> 1490
taacctgaca aaataaaaact tagtaaaatc takaactgtt tcttggccta cttgagagga 60
acttccatat ttccacagcc atctccgaaa gcagcagttg ctgtaaatta actgagactt 120
ggaaatggtg cagactgtct tggtagagct gttcttatag cacaatttta tctggaaaat 180
aaacttgtaa atgcgtgctg tatattaata catgtgtgcc catatttatt tttattatct 240
cctgccagtc tttgctcaat gggagatgac agaccaactt ctcaacgtga tttccccatt 300
tcattgaatg agatttatat gccacttatg aaaaaaaata ctgctgngaa agaaatgtac 360
ttt 363

```

```

<210> 1491
<211> 163
<212> DNA
<213> Homo sapiens

```

```

<400> 1491
taatcagccc ctaattttctc catgtttaca cttcaatctg caggcttctt aaagtgcacg 60
tatcccttaa cctgccacca gtgtccaccc tccggcccc gtcttgtaaa aaggggagga 120
gaattagcca aacactgtaa gcttttaaga aaaacaaagt ttt 163

```

```

<210> 1492
<211> 184
<212> DNA
<213> Homo sapiens

```

```

<400> 1492
yattccccag gggaaaaatt gaaagtcaaa ctattcacca agagaatgca ttgtctttgc 60
aatgagcct aagaatcaga ctttttataa atacatgttc aagtttcttg tggttctaaa 120
tggacactga gaactgaaac tgtctacacc aagttttaca tctatattaa ctatcattwt 180
acag 184

```

<210> 1493  
 <211> 273  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 39  
 <223> n = A,T,C or G

<400> 1493  
 aggtaawttg tgatatttag tgcacattta cgtgtaggnc crtcttkaat ggtaaagaca 60  
 gatacaagcc tatggcacac ttctccaaag caagctatac ttgagagcca attcccaaatt 120  
 aagacagcag agatctgatt aaatgcaact gtgcaaacat tcaacagaca tgttgaatgt 180  
 aagacaaatt atgattactg ataatatgca aatgtggtct ataaatttat gaatgtgact 240  
 tccaagggga atatggtatg gaagccatt ttt 273

<210> 1494  
 <211> 343  
 <212> DNA  
 <213> Homo sapiens

<400> 1494  
 ttggaaagcc tatcaatttc tctcttcatt ctccagcccc cacaccaagc acacagagct 60  
 tttcagtgtc ttactcttaa tggagaacat aaccagggat tatcagggtat tccaacatga 120  
 aaaagaaagt ccaatagaaa caagcaggat aatcaaacca ggaggaagca gagactatat 180  
 agagaaagaa aaaaagacac atgggaataa cggcaataat actgacaata cacctcacca 240  
 taaacttatc agaatgaatt tgttgagaa atatatggag gggagggtact tgtgtgtgtg 300  
 cacaggcact catgtacacg tgtgtatgtg tatgtttttt taa 343

<210> 1495  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 1495  
 tagcattctt ccagccactc tggcgctcact atgtgcttca cgacagaaat cgccgtcagg 60  
 aacttcacgg tgcgagtcac tttgctggca atgaggtgtg tgcacttctg tgcagactcc 120  
 gcaacctctc caccaagaat gtagagcttc ttaatatact gttgaacctg gacaggctcg 180  
 aatccagtga aaagcacaata aggggtcaat tctggagtta gcttttttagt gggaggtggt 240  
 acgtcttcaa ttctggctct tttggaagaa ggctggacat tagctacttc attctgtttc 300  
 agtttgggag gtagtcttat actcatcaac aactctgcag acacttttaa gggaactctc 360  
 caagcatcta aaagattt 378

<210> 1496  
 <211> 181  
 <212> DNA  
 <213> Homo sapiens

<400> 1496  
 tggagaagga agttttcctg aagagccaga atccttgcta agtcatttag atccaactga 60  
 ccatctttat ttctgtcaaa aatcttcac atgggtgccag tgtattcttc cagtttagcc 120  
 tcagaaatgg cctttttgtg gtgaagaaag aggtctcgga ggaagttgcg gagctcagca 180  
 g 181



<210> 1497  
 <211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 1497  
 tggaagctga tccaccttga gatcaagccg gccatccgga accagatcat ccgcgagctg 60  
 caggtcctgc acgaatgcaa ctcgccgtac atcgtgggct tctacggggc cttctacagt 120  
 gacggggaga tcagcatttg catggaacac atggacggcg gctccctgga ccagggtgctg 180  
 aaagaggcca agaggattcc cgaggagatc ctggggaaaag tcagcatcgc ggttctccgg 240  
 ggcttggcgt acctccgaga gaagcaccag atcatgcacc gagatgtgaa gccctccaac 300  
 atcctcgtga actctagagg ggagatcaag ctgtgtgact tcggggtgag cggccagctc 360  
 atcgactcca tgg 373

<210> 1498  
 <211> 337  
 <212> DNA  
 <213> Homo sapiens

<400> 1498  
 gctctttag tagcttttctt ttaagggaga tgtagtaaaa gggaaaatgt agctcttagt 60  
 ttacacttca aagatgtggg ggtctttcag agaactaaga ataacagttt tatgtgcaga 120  
 gagagtttgc cagatctgaa gcatatacct cattgactag gctgttactt tgggataggt 180  
 tgcagtacca gccacagcca gcagatagag gaaaagacac acataaactc gcttctgagc 240  
 gtccacttct gcaactctctg ctctgctgtt actcagcccc tgagtctgac tcatctctgc 300  
 acaacctctc tgtgccatga agataagtct tccatgg 337

<210> 1499  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 1499  
 catgcggagg gacttttagca tggctgataa ggtccttcct accattccaa aagaacagag 60  
 gaccagagtt gcacactttt tggaaaggca gggcttcaag cagcaagctc ttacagtatc 120  
 cacagatcct gagcatcgtt ttgagcttgc tcttcagctt ggagaggttaa aaattgcata 180  
 ccagtttagca gtggaagcag agtcagaaca gaagtggaaa caacttgctg aacttgccat 240  
 tagtaaagt cagtttggcc tagcccagga gtgcctgcat catgcacagg attatggggg 300  
 cctgctgctt ttgg 314

<210> 1500  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 1500  
 cctgaaacct ggtgggaaga tgattgaaag tgtttttagat tcaacagatt gactatgtat 60  
 gacttatcta ttaaaatgaa gaacttccat ggtttaatag aatgaatgct gtattcaaca 120  
 aggtcttcca tccttcttat aaatcttaag actgtgttta agctttcttt cacttttact 180  
 ctatcccttg gaagttaatt gggaataaaa agatttatca atttagtcac tataatttaa 240  
 ggccaggcat ctgcttggaa atacaataac cacaattaat acttagagaa aattgtttca 300  
 acagattaac tctgctattt t 321

<210> 1501  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 1501  
 ctgctctggg gaaaatgggt gaggagccag gcagagagga ggagcagagt gctggcagtg 60  
 gaaagcctag ctgagactgg agatgcccc ctgccccaaag catctcagcg aggatgcttc 120  
 tccatatggg tgagccagcc tagagacaga acaggggaag ccagcgggtg ctgcagcgac 180  
 ccaccgcccc agaacatctg catcttacct caacaaagggt ttattttctca ttaatatcca 240  
 ttgtgggttg gctgccactc taaccctcgt tgcctctcca tctgggtctt ggggtggcaga 300  
 gcagcctgtc tctgtggcag aggaaaagag agcactgggc agcacaggct gactctcaaa 360  
 ttttcgcgct gaaggtgacc caagtactg ctcacatttc attgactaaa gcaaaatcct 420  
 atgcctgtgg gtgagttgag caacgtgatg aggtgttaac ttctacaggg gaggggctca 480  
 aatattgccc aacagtggta tggcccactg cctgggggtgg tcggtggaag gctggcagga 540  
 caaggagagac cacgtgg 557

<210> 1502  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 1502  
 cctgcgggga ggcgcgctgc aagaacctgc ccggctccta ctctgcctc tgtgacgagg 60  
 gctttgcgta cagctcccag gagaaggctt gccgagatgt ggacgagtgt ctgcagggcc 120  
 gctgtgagca ggtctgcgtg aactccccag ggagctacac ctgccactgt gacgggcgtg 180  
 ggggcctcaa gctgtcccag gacatggaca cctgtgagga catcttgccg tgcgtgccct 240  
 tcagcgtgg 249

<210> 1503  
 <211> 302  
 <212> DNA  
 <213> Homo sapiens

<400> 1503  
 ccaggacctc ttttgggcat ttcttcttaa gtggaatata caacagataa gggagtaggg 60  
 gaggttaatac aggggaagcta ctctttccag ctgagaagga gttgatgaag cccatatatg 120  
 cattcaagaa gcccatggga tctctagct gtggatagtg gctaattgtg tcatccagaa 180  
 tcgacactgt ggaccgcggc agcgttttcc tgtacagctc caaaaactct ggatagggat 240  
 ttacaggatc caatggccca tagataaaat gaatggggat agttacagag gcaagagctc 300  
 cc 302

<210> 1504  
 <211> 430  
 <212> DNA  
 <213> Homo sapiens

<400> 1504  
 ccacgatatc aactatttgg ctttgtcagg tgttctctca aaaattggca gaagtgggtga 60  
 gaatccgtat gccccgctga atctcctggc tgactttgct ggtggtggcc ttatgtgtgc 120  
 actgggcatt ataattggctc tttttgaccg cacacgcact ggcaagggtc aggtcattga 180  
 tgcaaatatg gtggaaggaa cagcatattt aagtctcttt ctgtggaaaa ctcagaaatt 240  
 gagtctgtgg gaagcacctc gaggacagaa catgttggat ggtggagcac ctttctatac 300  
 gacttacagg acagcagatg ggggaattcat ggctgttggg gcaatagaac cccagttcta 360

cgagctgctg atcaaaggac ttggactaaa gtctgatgaa cttcccaatc agatgagcat 420  
ggatgattgg 430

<210> 1505  
<211> 164  
<212> DNA  
<213> Homo sapiens

<400> 1505  
ccagtcacct tcaccttcta actaactagc ctccggatga ggtggctgcc accaggcccc 60  
aatgatcccc aggagcccag cttccaaacc ccaacatcga atcaaacatc tccatcccca 120  
agtgcagtaa cacacaaaaa ccaaacactc tgccctggga aagg 164

<210> 1506  
<211> 189  
<212> DNA  
<213> Homo sapiens

<400> 1506  
aaaagtcata agggttttat tttgtatcat caaaatattc tataaggtcc caaatactct 60  
ttttcaaccc atgaacagta agaatttgtg aattctgata atgaaaaaag ttttcctcca 120  
ggtatgtttg tttcacattc agtcctaaag ccttgagcta tgtgtacttc cctcacacag 180  
gaacaccag 189

<210> 1507  
<211> 268  
<212> DNA  
<213> Homo sapiens

<400> 1507  
ctgcacagag gggcacggaa ctccaaatcc tggaatgcgg gtcaataatg tgaattctgg 60  
ccctgaccgc cagacacaca gcaagcctga gtcactctgcc gtcaccatgt cagccacaca 120  
atcctgtccc tgggcaggct cgggtggcaat gtctgtgatt ggcactctggg gccagccag 180  
ctcctcgctc agtacaatgt tgggaccctt tgctgggatg tcaaacacca gcaccggcc 240  
tgaccacggt cccacacaga tgaagtgg 268

<210> 1508  
<211> 159  
<212> DNA  
<213> Homo sapiens

<400> 1508  
aaagatggca aggcaataaa tgtgttcgta agtgccaacc gactaattca tcaaaccaac 60  
ttaatacttc agaccttcaa aactgtggcc tgaaagttgt atatgttaag agatgtactt 120  
ctcagtggca gtattgaact gcctttatct gtaaatattt 159

<210> 1509  
<211> 234  
<212> DNA  
<213> Homo sapiens

<400> 1509  
ccattgtgga gtacattatg aacacaatgt gcttgykaag ttttctctct cattttcaga 60  
cagcaattgt taagagtcac acacacgtcc cagacctaag cagcaactcc agtgaatggt 120

actcagacac actcacggga cagcacagaa cttgattctt ctttgtctgt tgcccaaaga 180  
acctgttctt tgagctctgt ccaggtgact tgtaatgata cctcttacgg tttt 234

<210> 1510

<211> 437

<212> DNA

<213> Homo sapiens

<400> 1510

aaagcagtac atcttaatat gaagacagga atttctatga tgcttacgaa cattagactc 60  
aacatTTTTg cagccccctt tcctggtcta cattcacaca aacatgagac acagtcccaa 120  
gggagaaaca gatgctggag gagcatttag ggccagagtg gaggcacaga ggaagctggg 180  
atttttcaac taccctctcc ttggttactc ctgggattcc cttaggattt cacggcacia 240  
ccagcgaaga gtttgctcag attcacttcg gagtagccac ttcgggacaa gaattgctct 300  
gctgtgttct tgagttttct gtagtcctgc agaactttgg gggtaaaaaa ttgcttcttc 360  
aatattatctt tctcatgacg ggtagtaagt ttctccagtg cacactccgc atcaaaaatg 420  
taccggtaaa agcacag 437

<210> 1511

<211> 94

<212> DNA

<213> Homo sapiens

<400> 1511

tgtgaagatg gagtctgagg ggggtgcaga tgactctgct gaggaggggg acctactgga 60  
tgatgatgat aatgaagatc ggggggatga ccag 94

<210> 1512

<211> 493

<212> DNA

<213> Homo sapiens

<400> 1512

aaaaatatgc attacaactg gagttttcca ctgagaataa gagtttggtt ttgacctcmc 60  
ataaatccaa ggttcttga aaaaaaagtt aatataaatt ctcaataact atatacattaa 120  
taccttatgt atacatagga gtttatataa tgcatttaag taacaaagaa tgtaacattt 180  
attagccacc aagtaattag gagatagcat caattatatt gaaagaagat gagtttagat 240  
gcttatagtc aaggaggtta attgaaattg aaagctattg taggtggtta ctactattat 300  
tatcaaacct gaaagttgga acatgtgaac ttgatccttt gcacacataa aagttcacia 360  
agctgctttt aatttgcctt tgttctgtag tactgcttgg tgaatcatgc actagtttgt 420  
tgtaaaattc atgtaaactt ttatgtatac aaatgtcaga tcaagcacag gttttattaa 480  
ttatatatat ttt 493

<210> 1513

<211> 510

<212> DNA

<213> Homo sapiens

<400> 1513

aaatgaggat tattgatagt actcttggtt tttataccat tcagatcact gaattttataa 60  
agtacccatc tagtacttga aaaagtaaaag tgttctgccg gatcttaggt atagaggacc 120  
ctaacacagt atatcccaag tgcactttct aatgtttctg ggtcctgaag aattaagata 180  
caaattaatt ttactccata aacagactgt taattatagg agccttaatt tttttttcat 240  
agagatttgt ctaattgcat ctcaaaaatta ttctgccctc ctttaatttg gaagggttgt 300

```
<210> 1514
<211> 511
<212> DNA
<213> Homo sapiens
```

| <400> 1514  |             |            |            |             |            |     |
|-------------|-------------|------------|------------|-------------|------------|-----|
| ctggagatca  | ggaatagaac  | ctttccaaga | tatcataata | ttttctttat  | aggaacactg | 60  |
| agtaatggca  | agaatat ttt | gagcttttcc | atggttaaga | gcgatagtct  | cagaggctgg | 120 |
| agaaaatggt  | cattctgctc  | agtgatccag | gagtgtgagg | acagtagctt  | cctttccacg | 180 |
| tccacaagac  | aatgacagat  | gtgtttccct | ctttgccctt | tctagggatc  | tttctagggg | 240 |
| tgttgattct  | ctcacaatat  | ttcaatgtcc | catttctgtg | tttcttctcc  | ctccaggggc | 300 |
| tgattttacga | ttacatgagt  | cttgtcacia | taatttctct | ctttaacatc  | aaggacaagt | 360 |
| tgatcactga  | gataagagct  | gatagttcca | tttttattca | gtctccactt  | ctgcctgaat | 420 |
| tgcccatggt  | cagtccatag  | agctacttta | gctccagggt | tgggtcccggc | cnccatcaca | 480 |
| tcaagaactg  | gtttcactgg  | gccttggaat | a          |             |            | 511 |

```
<210> 1515
<211> 176
<212> DNA
<213> Homo sapiens
```

```
<400> 1515
aaaggggaag gkgaractta aaagtattcc caactagatt atctacacca atacattgga 60
actctatatt ttgctttcat tttgtcttaa aaaaatgaaa tagcaacgct ctatcagtca 120
cacagaggac atgcarattt agcagtattg atattatact ctatcttggt ggattt 176
```

```
<210> 1516
<211> 309
<212> DNA
<213> Homo sapiens
```

|             |            |            |            |            |            |     |  |
|-------------|------------|------------|------------|------------|------------|-----|--|
| <400>       | 1516       |            |            |            |            |     |  |
| ctgggggaaaa | ccgtgcatta | cctgcccatc | ctgttcacgc | accagctcag | caaccgcgtg | 60  |  |
| aaggacctga  | tggtcataaa | ccgctccacc | accgagctgc | ccctcacctg | gtcctacgac | 120 |  |
| aagggtctcac | tggggcggct | gcgtttctgg | atccacatgc | aggacacctg | gtactccctg | 180 |  |
| cagcagttcg  | ggttttcaga | gaaagatgct | gatgaggtga | aaggaatttt | tgtagatacc | 240 |  |
| aacttatact  | tcctggcgct | gaccttcctt | gtcgcagcgt | tccatcttct | ctttgatttc | 300 |  |
| ctggccttt   |            |            |            |            |            | 309 |  |

```
<210> 1517
<211> 182
<212> DNA
<213> Homo sapiens
```

<400> 1517  
 ccaacatcta attttttttac tttttaatta tagctgttgt gactgatgtg agatggcatc 60  
 ttactgtggg ttttgcttgc atttatttat ttgatgatta gtaaggatga gtgttttttc 120  
 atatacttga gtgtcttctt ttgagaaaat atctgttcat gtcctttgcc ttttcttgat 180  
 tt 182

<210> 1518  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<400> 1518  
 cctgagggag agggaaaagc ggatacccac ctgtgtcgtc gtttgcgtag caagtccagg 60  
 aacagtccat acagccctgc tgcacccac gacgtgtca caaagcagga gttcatccga 120  
 ggccaagggt ttgtcatgag aatattcgtt aaagtaggga cgctgacttt gttcttgagg 180  
 agattctctt cctgtggagt atccagcctg tttgcctagt tttcctgttc ttctgggggc 240  
 tgatctctat ctgttttact gcagtcacgt taccaaagtg gtataagtaa aattgaaaga 300  
 attctaaata ctttttcccc ccacgttagc tgcctcacgt taatgtgggc ttacgggtctg 360  
 caaataagtg ttttgatgat ttggcgactg cagttaccca tactagctct cctaccactc 420  
 actactgaca gttaattatt atcgaatatc caccaccca gggtaggtta taagttatac 480  
 caggtgtttt ggtaataaat actaatgcaa ttaatttact ggttactctc tcactctaaa 540  
 gtaatcag 548

<210> 1519  
 <211> 491  
 <212> DNA  
 <213> Homo sapiens

<400> 1519  
 ctggtgaagg acggttctt ggtggaagtg tcagagagct cccggaagct ggggcacgtc 60  
 ttcctcttta cagatgtcct actgtgtgcc aagctgaaga agacctctgc agggaagcac 120  
 cagcagtatg actgtaagtg gtacatcccc ctggccgacc tgggtgtttcc atcccccgag 180  
 gaatctgagg ccagccccca ggtgcacccc ttcccagacc atgagctgga ggacatgaag 240  
 atgaagatct ctgccctcaa gagtgaatc cagaaggaga aagccaacaa aggccagagc 300  
 cgggccatcg agcgccctgaa gaagaagatg tttgagaatg agttcctgct gctgctcaac 360  
 tccccacaa tcccgttcag gatccacaat cggaatggaa agagttacct gttcctactt 420  
 gtcctcggac tacgagaggt cagagtggga gagaagcaat ttcagaaact acagaagaaa 480  
 ggatcttcag g 491

<210> 1520  
 <211> 169  
 <212> DNA  
 <213> Homo sapiens

<400> 1520  
 ctggtactgt cgatttgga agctggctgg aaaaaactta ttcattgaagg ggctgatggg 60  
 gtgggacagg gccaggattc ccagcacgaa gaaatacatg gacagcagga ggttgatgta 120  
 ctctcgggag aatattttga aaaagaggta gagccccaag agtgtgcag 169

<210> 1521  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

```
<210> 1522
<211> 386
<212> DNA
<213> Homo sapiens
```

```
<210> 1523
<211> 178
<212> DNA
<213> Homo sapiens
```

```
<210> 1524
<211> 319
<212> DNA
<213> Homo sapiens
```

```
<210> 1525
<211> 467
<212> DNA
<213> Homo sapiens
```

| <400>      | 1525       |            |            |            |            |     |  |
|------------|------------|------------|------------|------------|------------|-----|--|
| ccagactaga | cagagatcag | gtcatcaggg | gagcttccga | gcttcagcaa | agcccacagg | 60  |  |
| tagctctgcg | aactcagaat | gctaccctac | cttccctgca | ggccgctggt | catgtctgga | 120 |  |
| ctcctggggg | cgctatttaa | tgtttacccc | catctccagt | gccccctcca | aggtgtgtga | 180 |  |
| gtgtcttggg | gctctcaggg | ccaacatcga | agagatqggg | gccacctott | aacacctggc | 240 |  |

```
<210> 1526
<211> 439
<212> DNA
<213> Homo sapiens
```

```
<210> 1527
<211> 609
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 582  
<223> n = A,T,C or G
```

```
<210> 1528
<211> 393
<212> DNA
<213> Homo sapiens
```

|            |            |            |            |             |            |     |  |
|------------|------------|------------|------------|-------------|------------|-----|--|
| <400>      | 1528       |            |            |             |            |     |  |
| tgatgtaatg | aattcatatt | tattgataca | gaaaaatatg | atataatcca  | tctaaaaagc | 60  |  |
| aagttacaaa | acagtgtaca | gtgtaccata | gtacctatga | acacaaatag  | tgaagtaatt | 120 |  |
| tgcagagcta | taataccaaa | tcgaaaatta | ttttggtaat | gaattttatga | ttttcctcgt | 180 |  |
| tttctgattt | tttccatgat | ctcatatact | ttattctcag | aaaaaaaaag  | acaaaacccc | 240 |  |
| acacatacac | aaaaataaac | gagtaacttc | tttacaaccc | cagaggctaa  | gtcagtggga | 300 |  |



aaagagggaa atgaatgggt atgagcataa acacagggac aaataaaaaga agtttggagc 360  
acagagaaca attcacaat cagaagtcac ttt 393

<210> 1529  
<211> 143  
<212> DNA  
<213> Homo sapiens

<400> 1529  
atccgataga atccagttca atgaccttca gtctttactc tgtgcaactc ttcagaatgt 60  
tcttcggaaa gtgcaacatc aagatgcttt gcagatctct gatgtgggta tggcctccct 120  
gttaaggatg ttccaaagca cag 143

<210> 1530  
<211> 636  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 330, 504, 583, 591, 625  
<223> n = A,T,C or G

<400> 1530  
gtggagaagc ggcttggtcg ggggtggtct cgtgggggtcc tgcctgttta gtcgctttca 60  
gggttcttga gccccttcac gaccgtcacc atggaagtgt caccattgca gcctgtaa 120  
gaaaatatgc aagtcaacaa aataaagaaa aatgaagatg ctaagaaaag actgtctgtt 180  
gaaagaatct atcaaaagaa aacacaattg gaacatattt tgctccgccc agacacctac 240  
attggttctg tggaattagt gaccagcaa atgtgggttt acgatgaaga tgttggcatt 300  
aactataggg aagtcacttt tgttcctggn ttgtacaaaa tctttgatga gattctagtt 360  
aatgctgcgg acaacaaaca aagggaacca aaaatgtctt gtattagagt ccaattgac 420  
cggaaaacaa tttaattagt atatggaata atggaaaagg tattcctggt gttgaacaca 480  
aagctgaaaa gatgtatgtc ccmnctctca tatttgaca gtcctaact tctagtaact 540  
atgatgatga tgaagagaaa gggacaggtg gtcsaaatgg ctnttgagcc naattgtgta 600  
acatattcag taccacaattt actgngggaa acagcc 636

<210> 1531  
<211> 194  
<212> DNA  
<213> Homo sapiens

<400> 1531  
aaaaggcaga gcattctttt ttcggcaatt ttgataagca aggtgtagat ttacattttt 60  
gtccttgctc ccaacgaaat ggataaaca aaataactta ccatctactc atggaatgtt 120  
gttggtgttag ccagtctgaa ggccacactt aatttttata taactgtctt tagctcttct 180  
tttgacaggg cagg 194

<210> 1532  
<211> 300  
<212> DNA  
<213> Homo sapiens

<400> 1532  
ccatacaagg taattttgac aggttctctg gattaggaca tgggcatctt gggaggccac 60

1001754106901

tactggccta ccacaactgg gcagcaaaac tattacaccc tccggtataa tagttttggt 120  
 gtttcaatga ctgggaggaa aagggttga attttttgct ttgggggtccc tcttaacctt 180  
 gtatttttaa ggtctgggac tcaccaaccc tccccctcca accagagaaa ctcaactgcag 240  
 tatctccttg aaagtctggt gacgagtctg tctaagtgtt ggtgagaggc acaggaccaa 300

<210> 1533  
 <211> 521  
 <212> DNA  
 <213> Homo sapiens

<400> 1533  
 gttcctttgc accctgtaga tgttctagga tagttgatgc atgttactaa attacgtatg 60  
 caagtctgtg agtgcgtctg aggggacatc gccaaaggact gactgagaca cgatgccgag 120  
 acctcaagcc ctgaggggca gtcccaaaac ccttacagtg aagatgttta ctcaattgccc 180  
 ccacctctgg tccacactag aaagaagctc gcccacctc cacctgtgag atccgtgaat 240  
 tctcggaatg gcaggggaag ccttgcaacta ggttgcagag aagcatcctc cacatcctgt 300  
 gtcagaaacc ctggtctccg tggcacttgt aactcaccgt gctgtcttct ggtctgtgtg 360  
 tgttcttcaa gccagctcta ggcttcaggc cgagccaggc tcacactcag aaagatgtct 420  
 ccccatcccc attcggggct gacgatgggg ggctgatggc tgcccctgcg tggcctgagt 480  
 cctggtccct ctgaggcagt tgacggggca gtcagatttt t 521

<210> 1534  
 <211> 181  
 <212> DNA  
 <213> Homo sapiens

<400> 1534  
 actcaagaag atgtatttaa tgcttgacaa taagagaaag gaagtagttc acaaaataat 60  
 agagttgctg aatgtcactg aacttaccca gaatgccctg attaattgat aactagtggg 120  
 gtggaagcgg agacagcaga gcgcctgtat tggggggccg cccaatgctt gcttggaatca 180  
 g 181

<210> 1535  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<400> 1535  
 aaaataggac actaaatcct actctgaaag gtgggtttgat caggactaaa gagaatgtat 60  
 gtagagtgtt ttgtgcaacg aattgtgggg agcttggacc caataaggta gccagaatta 120  
 cccacaccat catcatcttc accaccatca ttattgttat cgacatattc caatacactt 180  
 ctgaagggct ggaagagaga aatatgtttg tgcagacagg cggcagcagt atttgatcca 240  
 ccaccacagc tccaccgctt gggggcagta ctgatccacc tgtgctcccc tccctgcccc 300  
 agcctggaaa gctaatttca gactcaaaaa aatcaagtac agagcagcgc acccaactcca 360  
 atgagtcatc cccgccact ctagacaaca gcatgctcat gactcaaact atcttcgtga 420  
 atggttcaaa atatcaagaa ttggtttcca tagtttcttg actaaccaga cacaaaattt 480  
 cccctacatg cagagattca tgtctcaact tcaactgtac attaaactca accgggaaac 540  
 tttt 544

<210> 1536  
 <211> 591  
 <212> DNA  
 <213> Homo sapiens

|            |            |            |            |            |            |     |  |
|------------|------------|------------|------------|------------|------------|-----|--|
| <400>      | 1539       |            |            |            |            |     |  |
| ctgtgggggt | ccttccagag | aggagctgag | atacgctac  | ctggaggggc | ccctgggcct | 60  |  |
| ggaggggctc | ctcagtgtga | ctgggtgaag | tgttttcaga | ggaccagggg | tgaggttggg | 120 |  |
| ggcatctcat | ccagacctg  | cgggcatctg | ccccagaacc | caagggcccc | tccttctctc | 180 |  |
| ctcctcaatg | gaaatgctgg | agatgtcttc | agtcaccctc | tgagcactca | cacatcacc  | 240 |  |
| cttatttggg | aattttttct | actctaacct | tccttctctg | tgcaccttct | gccccatccc | 300 |  |
| caggctctgg | cctctctctc | tcctcttcta | cccttttagc | ggtaatgact | cagttcccac | 360 |  |
| tgaggagcca | g          |            |            |            |            | 371 |  |

<210> 1540  
 <211> 403  
 <212> DNA  
 <213> Homo sapiens

<400> 1540  
 ctkgacgtga tggagcaggt gagcagtgcc cgtggggcctt gccagagggc tgaggaggac 60  
 cctctctaac cagctccctg tcccccttct tctgtagctt gagttgaaga agacactgct 120  
 ggacaggatg gttcacctgc tgagtcgagg ttatgtactt cctggtgtca gttacatccg 180  
 aaagtgtctg gagaagctgg aactgacat ttcactcatt cgctattttg tcaactgagg 240  
 cagcaatgca ccgttggttt catgtttcat actgtttaca ctagcactgc cctttttggc 300  
 ttaatttagt tcattttgta cctaactgag aactgtgctt tctgatgtag tgatgacaat 360  
 gacagatact cgtttacca aaagcacctt ctgcctgcag cag 403

<210> 1541  
 <211> 428  
 <212> DNA  
 <213> Homo sapiens

<400> 1541  
 taaaacaaaa ctaaagaaga gaaaatatat tctcgtaaat tatctgaact taaaagatgg 60  
 aagcctggag atagatttgt gataagccat tgctgagtag atcctagagt tcttgataat 120  
 ttcagttggt taaattacaa tagtttgcta tttcctccct cacattttat gttctacagt 180  
 atctagctgc ttgggttttc ctgtatacca tggggccttct gtcactctggg ctttactcag 240  
 tggcatattc cctctgccta aaactctcct cccctctcca ccttagaagt agcttttcct 300  
 agaacggttt tcccagggtt tcacctaagg tgatagtaca atctacaggg acctgcacat 360  
 gaagaccttt gcatacatgc caggaagttg gactttatct ttggaaaaag ggagcctttg 420  
 aaggtttt 428

<210> 1542  
 <211> 345  
 <212> DNA  
 <213> Homo sapiens

<400> 1542  
 awttaaatgc ttagcaagca gcaattccac gatggtcaaa ttcctaatat gagagaagta 60  
 gaaataggaa aaatagggtca ccctgatact tatgttttca ttttgcttaa tatacgtttg 120  
 tatatttcaa tataacatta atagatatcg tgtcccttca cagttctaaa gtagtaagca 180  
 aaatgaatta atttaacctt tgcaattaaa accaatttgg aagaatattg aggtagcaca 240  
 ctgttacggg aattagtatg actcagtaat gcagttgaaa gttagtggct cctaattccag 300  
 tatgaatcat ggagatgaga gaaatgatta gataaagaga tatatt 345

<210> 1543  
 <211> 420  
 <212> DNA  
 <213> Homo sapiens

<400> 1543  
 aatattgaat ttctagaagc agtatattgc ttactgcttc ttaattacgt tatagatgag 60  
 gtggaaatga taaaaactaa agaagcaaga ttaatcttta acacacattt caggctgttg 120  
 taaaagaata aacaatgctt catataaact tctagcaaat gacttcctaa tgaggctctt 180  
 aaacagtcct tagggcacgg aatgtcatca cataattaag cagctttaag cctttattaa 240  
 aaggcttaaa gtcgcaaca atgaaatctg aaacaaactg taccatatta aactttttga 300  
 tgatatttca aattcagtaa aagaaaaaaa ggatgggttca gaataacatc acgtattcta 360

```
<210> 1544
<211> 306
<212> DNA
<213> Homo sapiens
```

```
<210> 1545
<211> 110
<212> DNA
<213> Homo sapiens
```

```
<210> 1546
<211> 239
<212> DNA
<213> Homo sapiens
```

```
<210> 1547
<211> 527
<212> DNA
<213> Homo sapiens
```

```
<210> 1548
<211> 333
```

ctgaataaag gtcaacacag ttgcgatggt gagggatggt ctccaagcac cttttggtgg 60

```
<210> 1553
<211> 316
<212> DNA
<213> Homo sapiens
```

```
<210> 1554
<211> 542
<212> DNA
<213> Homo sapiens
```

[illegible]

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<400> 1555
ctgtctgtgg cttcccatgt ctttctccaa agttatccag agggttgtga ttttgtctgc 60
ttagtatctc atcaacaaag aaatattatt tgctaattaa aaagttaatc ttcattgg 117
```

```
<210> 1556
<211> 111
```

<212> DNA  
<213> Homo sapiens

<400> 1556  
ctgctgcagc cgcagtttct catccggagt gtaccccgtc atgtcgccgc tggtagcaac 60  
gcaaaaggac acggcgcacc ctcgaactac ggactagtta ctttagcgcg c 111

<210> 1557  
<211> 454  
<212> DNA  
<213> Homo sapiens

<400> 1557  
cgaggactga tcctctagta ctaagtgact ggggatatta caytarocaa cattgggtga 60  
tacatacctk artmatcatw tgaggaygca gtgataarsg satawwmywg tatsatccya 120  
acaygyacta rctcaaaaac tagtgggggc ggattgatct cctgtgggac wkcacatgsc 180  
ctgaaagtga acatgmtcmt ratcacctgc agrgcttgag atggyccmca tkgcwgact 240  
ccgccccyac aktttttgaw tcwacwggag ttaggswgmt yctwgawtta kcctttctac 300  
ctgcctccyg akagrwgcwc wygastwggg kgaatssatt gackkctaag rttakacttc 360  
cactaactct gtacgmtgar ctcttactaa tattcgttac cacgctaaga ggctctgctc 420  
caggatctca tcgcgactgg aaggaaacctc cagc 454

<210> 1558  
<211> 404  
<212> DNA  
<213> Homo sapiens

<400> 1558  
aaagaagtgc agttgatatc taattttacac agtgaaacta gtgatagaaa ataactaatg 60  
aaaaaaaaatc agagactggt ttccaattga ttgacaccta gatctgtcag cctctcttaa 120  
agaaagggga aggagaaaaa aaatctcatc atggaaggca gacaagagtc cacctgacag 180  
agggtggaatc tgatggaatc tgacccatt tcatgataaa cgagaggaaa cataaatgcc 240  
atctcaataa ctaaagcgat gtagtgtagc atgagtgact caatgcaaat tcacagagga 300  
aaagaagtta cggcttagga agtaggacaa taaatacaaa tatttcatct tatttaattg 360  
tgcatgactt cagtgaact accctttgca atgcaataaa tttt 404

<210> 1559  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 1559  
aaactatcag aagagatgag agggaattga tctacaatac tagaatttta tgtgcagaca 60  
aatccacatc tggaaatgaa atcacagtaa gatattttcg ggagaccaa acataaaaat 120  
tgctagaata aatttgccac gaacgagtaa ctagacatta gaaattgact acatagatat 180  
agtaatacta aaagtgtgta aaacaagcaa acacaacaca cacattctca attctttttt 240  
tttctatcaa atatcttcaa cttttt 266

<210> 1560  
<211> 142  
<212> DNA  
<213> Homo sapiens

<400> 1560



```

aaaactcagt atcttctgaa ccagaggcat ttctgattag cccttccta cctattttcc 60
tagtatcact ctttaacag cttggggagg tggcagcatt tcatggcctc cgtagtaact 120
cacaatgctt cctgggtat tt                                     142

```

```

<210> 1561
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<400> 1561
aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60
ggaaacaaaag tttcaaaaca aagaaaagtt gagtaaaagg tgccccctct atggctcatc 120
tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttccact 180
cactttgcaa ggaccactc attctgcaga aagacctaca agtctttctg gtctcaattg 240
caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300
gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt 360
atttttattt cagatgtatt t                                     381

```

```

<210> 1562
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 1562
ggagaaagga gaaccgtaca tgagcattca gcctgctgaa gatccagatg attatgatga 60
tggcttttca atgaagcata cagccaccgc ccgtttccag agaaaccacc gcctcatcag 120
tgaaattcct agtgagagtg tgggtgccaga cgttcggtca gttgtcacia cagctagaat 180
gcaggtcctc aaacggcagg tccagtcctt aatggttcat cagcgaaaac tagaagctga 240
acttcttcaa atagaggaac gacaccagga gaagaagagg aaattcctgg aaagcacaga 300
ttcatttaac aatgaactta aaaggttgtg cggctctgaaa gtagaagtgg atatggagaa 360
aattgcag                                     368

```

```

<210> 1563
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 32, 332, 333, 346, 361, 381
<223> n = A,T,C or G

```

```

<400> 1563
accwtrsaac tgcawttatt acctatgcta gntttggata agaamtgkyc wtayatgtga 60
kagcaagagg gcacyaraws wrcttsaaca ccaawgggcm ktactwtata kawmcgawgg 120
gcatgctwtm atgaccaact grmtgactgt ttgagaatgg acaargtgct agcgctaaac 180
ctgtccttct tgaacrtggc ttgactaacg kcwttgatac gtttccctca kkasaatact 240
attactasac tttgktgctt gattaccgac tgggtgactc ttgmtctcac ctatgargac 300
agtgttttac acaaactert akggaaaatt gnntttgtmc tgtganctac tcatcygaga 360
nctccctaag ggctaacatt ncatgtttcc gtctcactag ctacacgttc t                                     411

```

```

<210> 1564
<211> 602
<212> DNA

```



<211> 136  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 91, 104, 117, 126  
 <223> n = A,T,C or G

<400> 1567  
 ttattgattt ttttttttca ctttcccat cacactcaca cgcacgctca cactttttat 60  
 ttgccataat gaaccgtcca gccctgtgg ngatctccta tganaacatg cgttttntga 120  
 taactnacaa ccctac 136

<210> 1568  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 16, 17, 48, 52, 57, 82, 91, 98, 109, 123, 151, 155, 162,  
 166, 168  
 <223> n = A,T,C or G

<400> 1568  
 ttgngtctgt gtgagnnggt tgaccttctt ccatcccctg gtccttcnct tnccttnccg 60  
 aggcacagag agacagggca gnatccacgt ncccatnttg gaggcagana aaagagaaag 120  
 tgntttatat acggtactta ttaatatcc nttntaatt anaaantnaa acagttaatt 180  
 taattaaaga gt 192

<210> 1569  
 <211> 575  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 358, 505, 511, 513, 547  
 <223> n = A,T,C or G

<400> 1569  
 ctagttctgt cccccagga gacctggttg tgtctgtgtg agtggttgac cttcctccat 60  
 cccctggtcc ttcccttccc ttcccgaggc acagagagac agggcaggat ccacgtgccc 120  
 attgtggagg cagagaaaaag agaaagtgtt ttatatacgg tacttattta atatcccttt 180  
 ttaattagaa attaaaacag ttaatttaatt taaagagtag ggtttttttt cagtattctt 240  
 ggtaaatatt taatttcaac tatttatgag atgtatcttt tgctctctct tgctctctta 300  
 tttgtaccgg tttttgtata taaaattcat gtttccaatc tctctctccc tgatcggnga 360  
 cagtcactag cttatcttga acagatatct aattttgcta acactcagct ctgccctccc 420  
 cgatcccctg gctccccagc acacattcct ttgaaataag gtttcaatat acatctacat 480  
 actatatata tatttggaac cttgnatttg ngngtatata tatatatata tgtttatgta 540  
 tatatngat tctgataaaa tagacattgc tattc 575

<210> 1570

<211> 392  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 10, 114, 374  
 <223> n = A,T,C or G

<400> 1570  
 ctagtccagn gtggtggaat tccgccgcca tcatgggtcg catgcatgct cccgggaagg 60  
 gcctgtccca gtcggcttta ccctatcgac gcagcgtccc cacttggttg aagntgacat 120  
 ctgacgacgt gaaggagcag atttaciaaac tggccaagaa gggccttact ccttcacaga 180  
 tcggtgtaat cctgagagat tcacatggtg ttgcacaagt acgttttgtg acaggcaata 240  
 aaattttaag aattcttaag tctaaggac ttgctcctga tcttcctgaa gatctctacc 300  
 atttaattaa gaaagcagtt gctgttcgaa agcatcttga gaggaacaga aaggataagg 360  
 atgctaaatt ccgncctgatt ctaatagaga gc 392

<210> 1571  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1571  
 gaaggacgtt tgtgttggaa gccctggtat ccccggcact cctggatccc acggcctgcc 60  
 aggcagggac gggagagatg gtgtcaaagg agaccctggc cctccgggcc ccatgggtcc 120  
 acctggagaa atgccatgtc ctccctggaaa tgatgggctg cctggagccc ctggtatccc 180  
 tggagagtgt ggagagaagg gggagccttg cgagaggggc cctccagggc ttccagctca 240  
 tctagatgag gagctccaag ccacactcca cgactttaga catcaaatcc tgcagacaag 300  
 gggagccctc agtctgcagg gctccataat gacagtagga gagaaggctc tctccagcaa 360  
 tgggcagtcc atcacttttg atgccattca 390

<210> 1572  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 368  
 <223> n = A,T,C or G

<400> 1572  
 ctgcagcttc tgctgctgag gccgggattg ctacgactgg gactgaaggt gaaagaggtg 60  
 gaatccgaag tcctgggact gcgggatgct aaacattgaa agctgggtgt aggcactgca 120  
 gggagagtgt ggaggtctga cagggtagga atatgtggga gggctgggct aggaatggcc 180  
 ttggaggctg gcctgtgtgg atatggcacc aattctaccc tgctcctctt ttccttttcc 240  
 cagactcaga cgatgccctg ctgaagatga ccatcagcca gcaagagttt ggccgcactg 300  
 ggcttcctga cctaagcagt atgactgagg aagagcagat tgcttatgcc atgcagatgt 360  
 ccctgcangg gagcagagtt tgg 383

<210> 1573  
 <211> 149  
 <212> DNA

<213> Homo sapiens

<400> 1573

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cctccagagc ctctctagtgc gcagagcagc tcacactccc tccgctggga acgatggctt 60
ctgcctagta cctatccttg tgtttctgat gcagtggtag cattgggtca agttctctcc 120
tgctgtgggc agagttgctt cgatgttg 149
```

<210> 1574

<211> 143

<212> DNA

<213> Homo sapiens

<400> 1574

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ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc ctctctcggg 60
agtcacttcc actggtggac cacgggcccc cagccctgtg tcggccttgt ctgtctcage 120
tcaaccacag tctgacacca gag 143
```

<210> 1575

<211> 112

<212> DNA

<213> Homo sapiens

<400> 1575

```
ctgcatccac cctctttcag ggggtagagc cactatactt ctcatgtaga tcagccacat 60
tgtcactgga gactcggatc cagccatcct cccgcacgtg gtagagggtg ac 112
```

<210> 1576

<211> 198

<212> DNA

<213> Homo sapiens

<400> 1576

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ccagtatgtc cccaggatta tgtttggtga cccatctctg acagttagag ccgatatcac 60
tggaagatat tcaaatcgtc totatgotta cgaacctgca gatacagctc tggtgcttga 120
caacatgaag aaagctctca agttgctgaa gactgaattg taaagaaaaa aaatctccag 180
gcccttctgt ctgtcagg 198
```

<210> 1577

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1577

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cctgectgga gccccagatc accccttccct actacaccac ttctgacgct gtcatttcca 60
ctgagaccgt cttcattgtg gagatctccc tgacatgcaa gaacaggggc cagaacatgg 120
ctctctatgc tgacgtcggg ggaaaacaat tccctgtcac tcgaggccag gatgtggggc 180
gtcatcagggt gtcctggagc ctggaccaca agagcgccca cgcaggcacc tatgagggtta 240
gattcttcga cgaggagtcc tacagcctcc tcaggaaggc tcagaggaat aacgaggaca 300
tttccatcat cccgcctctg tttacagtca gcgtggacca tcggggcact tggaacgggc 360
cctgggtgtc cactgagggt ctggctgcgg cgatcggcct tgtgatctac tacttggcct 420
tcagtgcgaa gagccacatc cagg 444
```

<210> 1578

<211> 294

<212> DNA  
<213> Homo sapiens

<400> 1578  
ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60  
ctaaccagta tatgcagaga atggcaagtg tacgagctgt gcccaaccct gtaatcaacc 120  
cctaccagcc agcacctcct tcaggttact tcatggcagc tatcccacag actcagaacc 180  
gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240  
ctcaggggtgc cagacctcat ccattccaaa atatgcccg tgctatccgc ccag 294

<210> 1579  
<211> 295  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 176, 181, 182, 248  
<223> n = A,T,C or G

<400> 1579  
ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60  
ctaaccagta tatgcagaga atggcaagtg tacgagctgt gcccaaccct gtaatcaacc 120  
cctaccagcc agcacctcct tcaggttact tcatggcagc tatcccacag actcanaacc 180  
nngctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240  
ctcagggngc cagacctcat ccattccaaa aatatgcccg gtgctatccg cccag 295

<210> 1580  
<211> 166  
<212> DNA  
<213> Homo sapiens

<400> 1580  
cttctttatt ggggacatgt gggctggaac agcagatttc agctacatat atgaacaaat 60  
cctttattat tattataatt atttttttgc gtgaaagtgt tacatattct ttcacttgta 120  
tgtacagaga ggtttttctg aatatattt ttaagggtta aatcac 166

<210> 1581  
<211> 449  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 420  
<223> n = A,T,C or G

<400> 1581  
ctgaggcaac agaataaatg cagaggcatt acaatgaatc ccacttaata taaagaacta 60  
tacagaccac cacttctcta caaaatTTTT ttttctcat tgccagttaa atacagagtt 120  
ttactttcat agcttaacaa tgaagggtca tacactgaag ccaatacata tacctagcat 180  
ttcagtctaa gcttgtccac gtacatagct gaagtcaatt acaagggttg gcctagaaat 240  
gctaggggaa cttctttgta gtttttacag gtattaaact tcatcttgca cactgaagtc 300  
atcatacata cagggcaaaa tcagagcttt tatatttgcg tttattcttc atttaacttt 360

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ttataacact actatagttt attaaaacaa aaaacaaaga gcaagtagtg agcatattan 420  
gattacagtc ctttcactca ttcacacct 449

<210> 1582  
<211> 302  
<212> DNA  
<213> Homo sapiens

<400> 1582  
ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60  
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120  
tggcagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180  
ggccagcaaa aatatcaagg gtcaaatatc gcacatttct gtttaggcca tctatggctt 240  
tcatctctc tgaagtcaac tgggaattcaa acacctgcac gttctgtctg atgcgctgct 300  
ca 302

<210> 1583  
<211> 170  
<212> DNA  
<213> Homo sapiens

<400> 1583  
ttctgtctcc gtgggaacca cgagtgtgcc agcatcaacc gcatctatgg tttctacgat 60  
gagtgaaga gacgtacaa catcaaactg tggaaaacct tcactgactg cttcaactgc 120  
ctgcccatcg cggccatagt ggacgaaaag atctttctgct gccacggagg 170

<210> 1584  
<211> 368  
<212> DNA  
<213> Homo sapiens

<400> 1584  
ccagacgtgg tggctcacac ctgcagtccc agcaccttag gaggccgagg caggaggatc 60  
cttgaggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120  
aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180  
cgaggcagga gaattacttg aacgcaggag aatcactgca gcccaggagg cagaggttgc 240  
agtgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300  
gtaaataaat aaataaataa aaagcgctgc agtagctgtg gcctcaccct gaagtcagcg 360  
ggcccagg 368

<210> 1585  
<211> 392  
<212> DNA  
<213> Homo sapiens

<400> 1585  
caaccctctc tcctcagcgc ttcttctttc ttggtttgat cctgactgct gtcattggcg 60  
gccctctgga gaaggccctg gatgtgatgg tgtccacctt ccacaagtac tcgggcaaag 120  
aggggtgacaa gttcaagctc aacaagtcag aactaaagga gctgctgacc cgggagctgc 180  
ccagcttctt ggggaaaagg acagatgaag ctgctttcca gaagctgatg agcaacttgg 240  
acagcaacag ggacaacgag gtggacttct aagagtactg tgtcttctctg tcctgcatcg 300  
ccatgatgtg taacgaattc tttgaaggct tcccagataa gcagcccagg aagaaatgaa 360  
aactcctctg atgtggttgg ggggtctgcc ag 392

<210> 1586  
 <211> 158  
 <212> DNA  
 <213> Homo sapiens

<400> 1586  
 cctccactgc cagcctatgg ttgttcgcca ccaagccagg agtgctgcac cgcccagtgg 60  
 tccccctcgg gctccaggcc cccactgaga ccctctcgga ggcagaagca cttcaccct 120  
 cagagtccta caagtccaac cagtggacct ggaattgg 158

<210> 1587  
 <211> 85  
 <212> DNA  
 <213> Homo sapiens

<400> 1587  
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tottaattac 60  
 tagacctcag tactgaatca ggacc 85

<210> 1588  
 <211> 369  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 363  
 <223> n = A,T,C or G

<400> 1588  
 ccaggctacc ttcccactgg agacaggcag ggggacaggt gctaaggagc ctggcaggca 60  
 gggctggcag gcccacatggc gcctgttcca gcagatgaca agcccaggtc agggtagagc 120  
 gggcaggagg ggggacgagg gctcccacaa catgattttg tgtaaaatat ggcagcgaca 180  
 cacgctcagg gccgggagggt ggggggttagg gtggggacgg cggcaacatc gtgtaaaaaa 240  
 gtgtccagct tcccatagca aagagagctg tgaccgggtg ttcagagctt ctccagtaca 300  
 agggggaaag ccgcccggcg ggggcggcgg gcagggacat catttggttt cctggtgctg 360  
 tcngtccga 369

<210> 1589  
 <211> 361  
 <212> DNA  
 <213> Homo sapiens

<400> 1589  
 ctgtagcttc tgtgggactt ccaactgctca ggcgtcaggc tcagatagct gctggccgcg 60  
 tacttggttg tgctttgttt ggagggtgtg gtgggtctcca ctcccgcctt gacggggctg 120  
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180  
 agtgtggcct tgttggcttg aagctcctca gaggaggcg ggaacagagt gaccgagggg 240  
 gcagccttgg gctgaccag gacggtcagc ttggctcctc cgccgaacag taaaaaggga 300  
 ctgaggctgt tatcatagga ctggcagtaa taatcagcct catcttcagc ctggagccca 360  
 g 361

<210> 1590  
 <211> 434



|       |      |
|-------|------|
| <210> | 1593 |
| <211> | 288  |

<212> DNA  
<213> Homo sapiens

<400> 1593  
ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60  
agctttgggtg caattcccat cgaccagagt tgggtccgacc agccttggaa aggtcactga 120  
aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagc 180  
caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240  
tctgtgccac gtgggaggcc gtggagaagt gtaaagatgc aggattgg 288

<210> 1594  
<211> 455  
<212> DNA  
<213> Homo sapiens

<400> 1594  
ccacacagac tcaccaagcc acagacttgt cttccacaag cacgttctta ccttagccac 60  
gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120  
aaataccaag gggaacagtt aacttcaata caaggtcaaa atcagcaaca agttctacaa 180  
tccagtgtcg atatcagata caagcttcaa ggacaatttc ttttccaagg cttattccag 240  
tttcgtgagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta 300  
acccatgcag caaatgctac gcatctgctg agtccgttta gaagcatttg cgggtggacga 360  
tgagggggcc cgactcgtcg tactcctgct tgctaattcca catctgctgg aagggtggaca 420  
gtgaggccaag gatggagcca ccgatccaca ccgag 455

<210> 1595  
<211> 367  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 360  
<223> n = A,T,C or G

<400> 1595  
ccaggctacc ttcccactgg agacaggcag ggggacaggt gctaagggac ctggcaggca 60  
gggctggcag gcccacatgg gcctgttoca gcagatgaca agcccagggtc agggtagagc 120  
gggcaggagg ggggacgagg gctcccacaa catgatattt tgtaaaatat ggcagcgaca 180  
cacgctcagg gccgggagg ggggggttag gtggggacgg cggcaacatc gtgtaaaaaa 240  
gtgtcccagt tcccatagca aagagagctg tgaccgggtg ttcgagcttc tccagtacaa 300  
gggggaaagc cgcccggcgg gggcggcggg cagggaacatc atttggtttc ctggtgctgn 360  
cagtccg 367

<210> 1596  
<211> 193  
<212> DNA  
<213> Homo sapiens

<400> 1596  
ctgtttcttca tgcgcctggt ggggaagacg cccattgaga cactgatcag agacatgctg 60  
ctgtcgggga gtaccttcaa ctggccctac ggctcggggc agtgaccatg acggggccac 120  
gtgtgctgtg gccaggcctg cagacagacc tcaagggaca ggggaatgctg agggcccggg 180  
aggccctcg agg 193

<210> 1597  
 <211> 145  
 <212> DNA  
 <213> Homo sapiens

<400> 1597  
 ccatgctgga tgttctgctg cttagacctg atctgctgcc aattaccagg ggcagggtcaa 60  
 ggatgacctt cttggatcca ggaacgctaa catagatcag taaggaatat tcaactcgaa 120  
 ggatgttgca gccaggata gaagg 145

<210> 1598  
 <211> 445  
 <212> DNA  
 <213> Homo sapiens

<400> 1598  
 ctgcctataa aactagactt ctgacgctgg gctccagctt cattctcaca ggtcatcatc 60  
 ctcatccggg agagcagttg tctgagcaac ctctaagtcg tgctcactact gtgctgcaa 120  
 agctgggtcc atgacaactt ctgggtggggc gagagcaggc atggcaacaa atcccaagtt 180  
 aggtctcca atgagcttcc tagcaagcca gaggaagggc ttttcaaagt ttagttact 240  
 tttggcagaa atgtcgtagt actgaagatt cttctttcgg tggagacaa tggatttcgc 300  
 cttcactttc ctgtccttaa tatccacttt gttgccacac aacacaatgg ggatgttttc 360  
 acacactcgt accagatctc tatgccagtt aggcacattc ttgtaagtaa ctctcgatgt 420  
 tacatcaaac attatgatgg cacac 445

<210> 1599  
 <211> 142  
 <212> DNA  
 <213> Homo sapiens

<400> 1599  
 cctgccccag ggggaagcac ggacccgaga cgacggcgat gaggaagggc tcctgacaca 60  
 cagcgaggaa gagctggaac acagccagga cacagacgag gatgatgggg ccttgagta 120  
 agcagcctga caggagcaat gg 142

<210> 1600  
 <211> 297  
 <212> DNA  
 <213> Homo sapiens

<400> 1600  
 cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60  
 acagcgcttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtacccgt 120  
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180  
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240  
 tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 1601  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 1601

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ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60
tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120
ctggttgect atagtgtctt gggatcccac cgagaagaac catgggtgga cccgaactcc 180
ccggtgctct tggaggaccc agtcctttgt gcctcggcaa aaaagcacia gcgaacccca 240
gccctgattg ccctgcgcta ccagctacag cgtgggggtg tggctctgg 289

```

```

<210> 1602
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 274, 312, 329, 332, 368
<223> n = A,T,C or G

```

```

<400> 1602
gggagggcag agggagaatg ggaagatcag gaagctctag attacttcag tgataaagag 60
tctggaaaac aaaagtttaa tgattcagaa ggggatgaca cagaggagac agaggattat 120
agacagttca ggaagtcagt cctcgcagat cagggtaaaa gttttgctac tgcattctac 180
cggaatactg agaaggaagg actcaagtac aagtcctaaag tttcactgaa aggcaataga 240
gaaagtgatg gatttagaga agaaaaaaat tatnaactta aagagactgg atatgtagtg 300
gaaaggccta gnactacaaa agataagcnc anagaagaag acaaaaaattc tgaaagaata 360
acagtaanga aagaaactca gtcacctgag caggtaaa 398

```

```

<210> 1603
<211> 438
<212> DNA
<213> Homo sapiens

```

```

<400> 1603
ctggtgatct gctttcttac cctaactctt gacaaatgag tcgtctacta ttttaaagag 60
tctggaggtc tctgactctg ccataacaat aacctgctgt taatttataa cacagatttt 120
tgtttggaag agccttattt gaaatacact ttgattcatt ttcttaaata tttatattct 180
tttcttgctt acttcagggt tggtagctta gttggaagtg ccagcacctg gcacctattc 240
atatagaaca ggctgtactc aagacaactt ctagcattta cttaagact tatataattt 300
atcttctattt tgtgtgtact atagtcttgt gcatatgtag ttgaacacac agtgaaatat 360
atgtctctct ttgtggatgt gcggcctaaa aatttgaatg tctggtgaga gagagccatg 420
tgtataggtc agagaaaa 438

```

```

<210> 1604
<211> 297
<212> DNA
<213> Homo sapiens

```

```

<400> 1604
cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtcttg ctgcctatat 240
tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

```

```

<210> 1605
<211> 451

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1605

```

ggaaaggcta ttgtttctcg acagtttgtg gaaatgaccc gaactcggat tgagggctta 60
ttagcagctt ttccaaagct catgaacact ggaaaacaac atacgtttgt tgaaacagag 120
agtgttaagat atgtctacca gcctatggag aaactgtata tggtagctat cactacaaaa 180
aacagcaaca ttttagaaga tttggagacc ctaaggctct tctcaagagt gatccctgaa 240
tattgccgag ccttagaaga gaatgaaata tctgagcact gttttgattt gatttttgct 300
tttgatgaaa ttgtcgact gggataccgg gagaatgtta acttggcaca gatcagaacc 360
ttcacagaaa tggattctca tgaggagaag gtgttcagag ccgtcagaga gactcaagaa 420
cgtgaagcta aggctgagat gcgtcgtaaa g

```

&lt;210&gt; 1606

&lt;211&gt; 272

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1606

```

ccggagccca cgggtggtcat ggctgccaga gcgctctgca tgetggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtag gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acaggttgga ctgcggttac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag

```

&lt;210&gt; 1607

&lt;211&gt; 444

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1607

```

ccaggctggt ctcaaactcc tcacctcaac tgatccgccc accttggcct cccaaagtgc 60
tgggattata ggtgtgagcc accgtgccca aagttaagta tttttgatca agtggtttgt 120
cttttgtgca aggcatttgt ggctctgtca tagcagagga aaacaaaaca tgcctatcaa 180
atgaatcaag tccgacctct tctcatattg agcaactaga ggtctaggaa catttccct 240
acctgtcatt ctcatctggc ataccagggtg tacatactcc ttcttattct cctctgttac 300
caagatgttg gccccatttg gtttgaggtc acgaacttca caaactccaa actcttgac 360
ctcagtgctg aagggtgaggt catagcctag tgtggagaca tcattttcca gcagataaac 420
cagaccttggt tagaagtggg aatc

```

&lt;210&gt; 1608

&lt;211&gt; 189

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1608

```

caaaatccaa aacttctctt gaaaagtcca gggaccgtcc aggggagatg gggaggagat 60
atggagttag tcacctgctc cagaagatgc cagcttctct ctccagggtg cttagttagc 120
tttgcccacc cctcactccc caggagctc tggggacagc ttctcgcac ccctgtccca 180
ccacacag

```

&lt;210&gt; 1609

&lt;211&gt; 426

&lt;212&gt; DNA

<213> Homo sapiens

```
<210> 1614
<211> 439
<212> DNA
<213> Homo sapiens
```

```
<210> 1615
<211> 237
<212> DNA
<213> Homo sapiens
```

```
<210> 1616
<211> 266
<212> DNA
<213> Homo sapiens
```

```
<210> 1617
<211> 185
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 62  
<223> n = A,T,C or G
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<400> 1617  
 ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60  
 gnagggttagt tgtggcaata aaaatgatta aggatactag tataagagat cagggttcgtc 120  
 ctttagtggt gtgtatgggt atcatttggt ttgagggttag tttgattagt cattgttggg 180  
 tggtg 185

<210> 1618  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 201, 214, 225, 230, 232, 241, 245, 249, 278  
 <223> n = A,T,C or G

<400> 1618  
 ctgttaacag ataagtttaa ctgcatctg cagtattgca tgtagggat aagtgccttat 60  
 ttttaagagc tgtggagttc ttaaataatca accatggcac tttctcctga ccccttcct 120  
 aggggatttc aggattgaga aatttttcca tcgagccttt ttaaaattgt aggacttggt 180  
 cctgtgggct tcagtgatgg ngatagtaca catntcactc agagngcatn tntgcatctt 240  
 ntaanatana tttcttaaaa gcctctaaag tgatcagntg ccttgatgcc aactaaggaa 300  
 atttgtttag cattgaatct ctgaaggctc tatgaaagga atagcatgat gtgc 354

<210> 1619  
 <211> 170  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 145, 146  
 <223> n = A,T,C or G

<400> 1619  
 ctgtgctgtg gagagaagct gatgttttgg tgtattgtca gccatcgtcc tgggactcgg 60  
 agactatggc ctgcctccc caccctcctc ttggaattac aagccctggg gtttgaagct 120  
 gactttatag ctgcaagtgt atctnncttt tatctggtgc ctctcaaac 170

<210> 1620  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 1620  
 cctgttgatt gcatactgta gaagatttga tgttcagact gggttcttctt acatatacta 60  
 tgtttcgtct acagttggta aatttttgggt tttctttgta ttaaattgtg aattgtattg 120  
 tctggaggaa aagacagagg tctaaaaata aagaaggagt acagtttggg catggtgggt 180  
 caccctgga gtcctagcac tttggggggcc aaggcaggca gattgcttga gccaggagt 240  
 tctagatgag cctgggcaac atagtgagac cccatctcta aaaaaacagt tttaggggcca 300  
 ggcacagtgg ctcacacctg taagcccagc actttgggag gccgaggcag gcagatcata 360  
 agggcaagag attgagacca tcctgg 386



<210> 1621  
 <211> 346  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 267  
 <223> n = A,T,C or G

<400> 1621  
 ccaattctgc ccgttccccg tgggccaaca aactgggggt tgtatgcgtc tggaaccctg 60  
 tgatagtctt cggcttgcca gcctggccca ccacatccac tgcttgccc acacggacag 120  
 aactggcaa tggccgcagc tcctcatcaa acgtaaccag cattcggggc tgcattggcag 180  
 ccaccagccc atacaatata tagtgtgatt tgcctagaat aatgtttcga acatccagga 240  
 aagagacaag cacagtgagc agtccancca cggccacctg gtcataaagc tgccgggtcgc 300  
 tgtggtaggg gcagagggtg aggggtgccct tccctaaatg tgtcag 346

<210> 1622  
 <211> 366  
 <212> DNA  
 <213> Homo sapiens

<400> 1622  
 ggaagtttgt gctctctgcg tggctaagtt ttccacctac taggacgggg gtgggggtggg 60  
 gagaacaggt gtccttctaa aatacagcac aagctacagc ctgcgtccag ccataaccca 120  
 ggagtaacat cagaaacagg tgagaatgac cactttaact caccggggcc gtcgcactga 180  
 aataagcaag aactctgaaa agaagatgga aagtgaggaa gacagtaatt gggagaaaag 240  
 tccagacaat gaagattctg gagactctaa ggatatccgc cttactctta tggaagaagt 300  
 attgcttctg ggactaaaag ataaagaggg gtacacatct ttctggaatg actgcataatc 360  
 atcagg 366

<210> 1623  
 <211> 165  
 <212> DNA  
 <213> Homo sapiens

<400> 1623  
 ctgttgattg gctgtgacac tgctttgtgt catcttctta ccatgatcaa aggcgaagga 60  
 agggatctct tttgggacat tgtgattgtt ttagcagaga gagaaagaga tgaaatacac 120  
 ttcggttttc tcttaaaaga tgcattgtatc atacagtgtc ttaag 165

<210> 1624  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

<400> 1624  
 ccaatgcccg gagcaggccc tctttccatc ccctgtcgga tgagctggtc aactatgtca 60  
 acaaacggaa taccacgtgg caagccgggc acaacttcta caacgtggac atgagctact 120  
 tgaagaggct atgtggtacc ttcttgggtg ggcccaagcc accccagaga gttatgttta 180  
 ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227

<210> 1625

<211> 373  
 <212> DNA  
 <213> Homo sapiens

<400> 1625  
 ctgtagcttt tgtgggactt ccactgctca ggcgtcaggc tcaggtagct gctggccgcg 60  
 tacttgttgt tgctttgttt ggagggtgtg gtggtctcca ctccgcctt gacggggctg 120  
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180  
 agtgtggcct tgttggcttg aagctcctca gaggagggtg ggaacagagt gaccgagggg 240  
 gcagccttgg gctgacctag gacggtcagt ttggtccctc cgccgaacac ccgaagataa 300  
 ttagtgctgt ctgttgagta acaatagtag tcacctcat cttccacctg ggccccagtg 360  
 atggtcaagg tgg 373

<210> 1626  
 <211> 367  
 <212> DNA  
 <213> Homo sapiens

<400> 1626  
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60  
 cttgaggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120  
 aatacaaaaa ttagccaagt gtggtggcat atgcctgtaa tcccaactac tcagaaggcc 180  
 gaggcaggag aattacttga acgcaggaga atcactgcag ccctggaggc agaggttgca 240  
 gtgagccgag attgcaccac tgtactccag cctgggtgac agagcaagac tccatctcag 300  
 taaataaata aataaataaa aagcgctgca gtagctgtgg cctcacctg aagtcagcgg 360  
 gcccagg 367

<210> 1627  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 1627  
 ctggataagg acatcaatac cttctctatg cgtgtcaggg tgtggtacgg gtatcacttt 60  
 ccggagctgg tgaagatcat caacgacaat gccacatact gccgtcttgc ccagtttatt 120  
 ggaaaccgaa gggaactgaa tgaggacaag ctggagaagc tggaggagct gacaatggat 180  
 ggggccaagg ctaaggctat tctggatgcc tcacggctct ccatgggcat ggacatatct 240  
 gccattgact tgataaacat cgagagcttc tccagtcgtg tgggtgtctt atctgaatac 300  
 cgccagagcc tacacactta cctgcgctcc aagatgagcc aagtagcccc cagcctgtca 360  
 gccctaattg gggaagcggc aggtgcacgt ctcatcgca atgctggcag cctcaccaac 420  
 ctgg 424

<210> 1628  
 <211> 314  
 <212> DNA  
 <213> Homo sapiens

<400> 1628  
 tcgactgtta tagcttagaa agcaacacta ctactatgag actataaaac attaaactat 60  
 tttaagaaaa ccagcgtgtg gaaaaatgga gccatttttg tcaaaaagtg gctcaaagca 120  
 caaaactgct cagatgttca agagtcctag gagtctgggc tgcacagtat taaggggtga 180  
 gaggagaccg acagcctgtt tgaatcaggc ttgtgagccc agctcatctg acaacttcaa 240  
 agagcttctc tgcctataca ttccaccgtt tagcataaga caccacttta cgctattttac 300  
 aagtctcctt ttgg 314

<210> 1629  
 <211> 393  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 284  
 <223> n = A,T,C or G

<400> 1629  
 ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60  
 cccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120  
 gacaagtaca tcgccctgga tgagtgggcc ggctgcttcg gcatcaagca gaaggatata 180  
 gacaaggatc ttgtgatcta aatccactcc ttccacagta ccggattctc tctttaaccc 240  
 tccccttcgt gttttccccc aatgtttaaa atgtttggat ggtntgttgt tctgcctgga 300  
 gacaaagggtg ctaacataga tttaagttga ataacattaa cggtgctaaa aaatgaaaaa 360  
 ttctaaccga agacatgaca ttcttagctg taa 393

<210> 1630  
 <211> 317  
 <212> DNA  
 <213> Homo sapiens

<400> 1630  
 ctgcaagaat atcagaaatc aatacaaaaca agtattgaca ggtgttacag acatgcaaaa 60  
 tatccttcaa tgcaacgaat ttttaagaaa tcagctagcc tatattaatc agatgtttta 120  
 ggtcaaaacca agttttccatc tcgggctcag tgaaatagta ttaactcatt gagtctcctt 180  
 tccccagga atgtttggaa tggcagaaca gaaagagcta tcaactccta aattctttta 240  
 tgcgagtgtt actccaacac ttatttttact tggtttactt ggaatgtatg agaggaaact 300  
 gatgtttttt acaatgg 317

<210> 1631  
 <211> 262  
 <212> DNA  
 <213> Homo sapiens

<400> 1631  
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 gcctcctgtg gctgtgttta gaaagcatgc ccggcctttc ttgacagcca gccaccccag 120  
 atgatggcag ggcaagggaag actgttagga gtcagagtgc tcccctcagg tggaaggaaa 180  
 ctgggccaac tctactttgt aagccatagg gtgccaggta gcccgccac cctgagcctg 240  
 tgccctccact gccccgcgt gg 262

<210> 1632  
 <211> 138  
 <212> DNA  
 <213> Homo sapiens

<400> 1632  
 ctggaattaa ttcttcgaca actccagacc gaccttcgga aggaaaaaca agacaaggcc 60  
 gttctccaag cagaagtga gcacctgaga caggacaaca tgagactgca ggaggagtcc 120  
 cagaccgcga cagctcag 138

<210> 1633  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 17, 55, 80, 81, 94, 95, 106, 107  
 <223> n = A,T,C or G

<400> 1633  
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 acatcatata tattttaccag accagaagcg ctggcccccac gtctcccccac cctgggtcggg 180  
 ggaacctcct gg 192

<210> 1634  
 <211> 447  
 <212> DNA  
 <213> Homo sapiens

<400> 1634  
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 gactgccttc tgggtctccct gtctctcttc taactctcta cttagacaac aataagatca 120  
 gcaacatccc tgatgagtat ttcaagcggt ttaatgcatt gcagtatctg cgtttatctc 180  
 acaacgaact ggctgatagt ggaataacctg gaaattcttt caatgtgtca tccctgggtg 240  
 agctggatct gtcctataac aagcttaaaa acataccaac tgtcaatgaa aaccttgaaa 300  
 actattacct ggaggtcaat caacttgaga agtttgacat aaagagcttc tgcaagatcc 360  
 tggggccatt atcctactcc aagatcaagc atttgcggtt ggatggcaat cgcattctcag 420  
 aaaccagtct tccaccggat atgtatg 447

<210> 1635  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<400> 1635  
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 tggtttctaa gacaagactt tatttcaccc tgtatcacag cttcctggga aatgaattag 120  
 ggagcaagag acggcctggc aagaaaatca ttattgttgc tgggaagttg caaagaaagg 180  
 ggagagttta ttcaaattag tgtaacagag cccccaggat gaagagagtg gtgcagggaa 240  
 aaggtctaaa ttcttggtgt tgggtggggac actggcacat cccacagcaa ggactcagcc 300  
 ctcaacggcg gcggtctgggt cttgggaggg gagtgggtggg agggtaaggg ctccctcagct 360  
 ccct 364

<210> 1636  
 <211> 399  
 <212> DNA  
 <213> Homo sapiens

<400> 1636  
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tgatattcac ccaagggcac cagtctctat gctgagaggt gggatcaaag aagcttcggg 180  
 aagatgtgtc cgaactgctg gaggagcaga ggcgagctcg cttggctttc cgcagagggc 240  
 tagatggtag ctccaggcca ggggtgtctc ctgttcccat gcttcgggtc actgggagcg 300  
 ttctgggtgt ggggctagca gcctctggct caggacggtc aacaggactg gaagagtccc 360  
 agctccgagt tcgagagaca atgggaccag ggctctttt 399

<210> 1637

<211> 246

<212> DNA

<213> Homo sapiens

<400> 1637

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 agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatata ttaacaaagc 120  
 aatagctctc aagcagcaga gcctctcgag gaagaaagct tgcccgggtc ccatcccatc 180  
 atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240  
 agcttg 246

<210> 1638

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1638

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 actcgcaatt ggttctgaaa ttagaacgtt caccatcgta cttaaaatct taggggcatg 180  
 aagagtcagc tagaacaagg aaaaagaaaag tcgcaggtag taggtaagta ggtgggcaca 240  
 tgaaaagcca agctgctctg tccaacacca gtgtacatgt gctttaacta aatgaactcc 300  
 agaggccaac agcagcagac ctgctcaatt caccttccaa atcagaacaa gacaaaaaag 360  
 ctcaggcttg agttgtcaac tatgcatagg ttccgccagt gatgaggagc tcgtaagcag 420  
 gatctctact ccttctgcac aacacgatgc aag 453

<210> 1639

<211> 197

<212> DNA

<213> Homo sapiens

<400> 1639

tttgctgttc gtgatatgag acagacagtt gcgggtgggtg tcatcaaagc agtggacaag 60  
 aaggctgctg gagctggcaa ggtcaccaag tctgcccaga aagctcagaa ggctaaatga 120  
 atattatccc taatacctgc cccccactc ttaatcagtg gtggaagaac ggtctcagaa 180  
 ctgtttgttt caattgg 197

<210> 1640

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1640

ccagagcggg ggtccccacc acctcgaaact ctgggaattc gagccacagc tctgccagta 60  
 cccaagact cagcactagt ctgatgacct gctaattcac tgacagcata gggctgtctg 120  
 ttgtttttgc gcaagttggg gtgaacaaaag ttcacaatat ctggtcgaat aggagccttg 180  
 aatacagcag gcaaagtgc atttttgcca gatgactccc ccttttcgga gtacaccgat 240

278

[illegible]

|            |            |            |            |            |            |     |  |
|------------|------------|------------|------------|------------|------------|-----|--|
| <400>      | 1642       |            |            |            |            |     |  |
| ctgcacatca | aggacatctt | caggaagttc | aggattgccg | tagctaaact | gaaaaccacc | 60  |  |
| atccatggac | tctccaaacc | aaacgtgttt | cttctcagca | ctagaatctg | tccaccatgt | 120 |  |
| tttccgtgga | acattcaaag | gattggcact | tatgcatggt | tcccagttt  | ccacattaca | 180 |  |
| gaataccttg | atagcatcca | atttgcatac | ttggttaggg | tcaaccaggt | attctccact | 240 |  |
| cttgagttca | ggatggcaga | atttcaggtc | tctgcagttt | ctagcggggt | ttttacgag  | 299 |  |

[illegible]

| <400> 1644  |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
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| gatgtaaagc  | ctgctagctg | gaactcacag | aagattggaa | caaaaagata | ggagatggac | 120 |
| acctggggga  | ctgctccagc | acgaagggaa | gcgatgagca | tcacacagca | gggccattgc | 180 |
| aggggacagg  | tgctgtaatt | cctgcccaga | gaacttgaaa | gcttacagtg | tgctcacagg | 240 |
| aaggaatcgg  | ctcagctagt | ccagaaattg | ctgcattttc | catattactt | agttctttat | 300 |
| tcatccctgtg | gtaaagagtc | acccttgttt | tccgtatcta | taaaactgaa | agacttaaaa | 360 |
| tttac       |            |            |            |            |            | 365 |

<210> 1645  
<211> 249

<212> DNA  
<213> Homo sapiens

<400> 1645  
ctggtgctgg aactgcagaa agttaagcag gagaacatcc agctagcggc agacgcccgg 60  
tctgctcgtg cctatcgaga cgagctggat tccctgcggg agaaggcgaa ccgcgtggag 120  
aggctggagc tggagctgac ccgctgcaag gagaagctgc acgacgtgga cttctacaag 180  
gcccgcattg aggagctgag agaagataat atcattttaa ttgaaaccaa ggccatgctg 240  
gaggaacag 249

<210> 1646  
<211> 433  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 398  
<223> n = A,T,C or G

<400> 1646  
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aaccogagat atctggcacg cccgtgttac tggaggtgac tgaaacacca gtgttgtatc 180  
catgagaccc atatccactc ggctgttgga aaggggtggc cgatgcattc acactgacat 240  
tcacaccatg ctgcttgga gaggtaggag ccacagggaa cacagcaggc ccatactgga 300  
aggtgctggg gagggccggg acccctgtat agtatggcag gctggtgtaa actgtagcca 360  
ggaggcagcg ccgggttcag gaatgtctgc tgcgtggnat ggtgagtctg cgtctggttt 420  
ctgttggggg tgg 433

<210> 1647  
<211> 451  
<212> DNA  
<213> Homo sapiens

<400> 1647  
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tttttagccag gaactccaag tccacatcct tggcaactgg ggacttgccg aggttagcct 120  
tgaggatggc aacacgggac ttctcatcag gaagtgggat gtagatgagc tgatcaagac 180  
ggccaggtct gaggatggca ggatcaatga tgtcaggccg gttggtagcg ccaatgatga 240  
acacattttt tttgtggac atgccatcca tttctgtcag gatctggttg atgactcggg 300  
cagcagcccc accaccatct ccaatgttac ctccacgagc cttggcaatc gaatccagct 360  
catcaaagaa tagcacacag ggggcagctt ggcgggcctt gtcaaagatt tctctgacat 420  
tggcctcaga ctccccaaac cacatggtga g 451

<210> 1648  
<211> 176  
<212> DNA  
<213> Homo sapiens

<400> 1648  
cctaaacgag gatttcagct tccattatgc ccaactccag tccaacatca ttgaggcgat 60  
taatgagctg ctagtggagc tgggaaggac aatggagaac attgcagccc aggtctctgga 120  
gcacattcac tccaatgagg tgatcatgac cattggcttc tcccgaacag tagagg 176

<210> 1649  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 1649  
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 ccagttgatg tcattgatca tcaatacttt ctactcgaac aaagagatct ttctgagaga 180  
 gctcatttca aattcatcag atgcattgga caaaatccgg tatgaaagct tgacagaccc 240  
 cagtaaatta gactctggga aagagctgca tattaacctt ataccgaaca aacaagatcg 300  
 aactctcaact attgtggata ctggaattgg aatgaccaag gctgacttga tcaataacct 360  
 tgggtactatc gccaaagtctg ggaccaaagc gttcatggaa gctttgcagg ctggtgcaga 420  
 tatctctatg attgg 435

<210> 1650  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 1650  
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 agctctccat cctgttctgt gagggtgtct tctctttctc cttcacgtca tagccgtgac 180  
 ccaccgttca tctctgctct tgcgtaaaga tgaccgatgg agtccaaagc caagtggctt 240  
 caccag 246

<210> 1651  
 <211> 400  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 171, 172, 303, 344, 354, 357, 366, 367, 379, 391  
 <223> n = A,T,C or G

<400> 1651  
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 tggcgagaag ccggacgagt tcgagtcagg catctcccag gctcttctgg agctggagat 120  
 gaactcggac ctcaaggctc agctcaggga gctgaatatt acggcagcta nngaaattga 180  
 agttgggtgt ggtcggaaaag ctatcataat ctttgttccc gttcctcaac tgaaatcttt 240  
 ccagaaaatc caagtccggc tagtacgcga attggagaaa aagttcagtg ggaagcatgt 300  
 cgnctttatc ggctcagagg aggaattctg cctaagccaa ctcnaaaaag ccgnacnaaa 360  
 aattanngca aaaagcgtnc caggagccgt nctctgacag 400

<210> 1652  
 <211> 338  
 <212> DNA  
 <213> Homo sapiens

<400> 1652  
 ctgggggtgc ccatcttctg tgctctgtgg tacatatctg tgtcgcaaaa gtagcgtgcc 60



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cggtacagca agccttcctt ctgctgcttc tccttccagc agttgttccg gaggttggcg 120
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gagaaagtgt ctccacata gtagacgaca cccaggtggt cagtgactcg cctgtggatg 240
tggccacag acggtcttgg actcagactg tagggtggac tggagaccat gagctggctg 300
agagctgaca cgagaatcag gatgaggata ggcacag 338

```

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<210> 1653
<211> 167
<212> DNA
<213> Homo sapiens

```

```

<400> 1653
gcggtggagc cgccaccaa atgcagattt tcgtggaaac ccttacgggg aagaccatca 60
ccctcgaggt tgaaccctcg gatacgatag aaaatgtaaa ggccaagatc caggataagg 120
aaggaattcc tcctgatcgg cagagactga tctttgctgg caagcag 167

```

```

<210> 1654
<211> 1034
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 88, 827, 882, 897, 905, 933, 945, 950, 955, 973, 976, 991,
999, 1010, 1022, 1023, 1024, 1033
<223> n = A,T,C or G

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<400> 1654
atgcatgctc gagcgccgc cagtgtgatg gatatctgca gaattcgccc ttagcgtggt 60
cgcgcccgag gtccaagagg gagataanac aaacttctca aacaaaaaga aaagaaaaac 120
gaatgattca tctgctttaa tcagtgtgat taatgcagca cccattgccc cggaaccgt 180
ttctgctgta ctatctggat actaaaatgt tacggaagta gctctttgtt ctccctcact 240
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tgtcgcgtat agttgagcgc gttcttagca gttggcttca tggacagctc attagtgttt 360
tgacttttct taccagcgt taattgaatt cttgctttta gacaacttcc tttttgtagt 420
ggtgaacctt gcccttttagt acagttcaag tgaatctgga taattgttca tctttgcttt 480
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tctgcttaaa aaactgtctg acttcgtgaa tatagagacc aagtttacca cttctgatga 600
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ttaacaattt gtaggaaact ttgggtcttt ttgtcccaag aaaaaggaat gtcttgacag 780
gcttaaagct tttcgctccc ttgcacctta aaactcgaaa gttagnnaaa atccctttaa 840
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ccatngcttt ttaaatttaa agaaattttt aanaaccttg cccnnggggn ggggnccgc 960
tccaaaaagg gnggnaaaaa ttccccagcc nacccttng gggggggccn cgttttcctt 1020
tnnngggggg aanc 1034

```

```

<210> 1655
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 1655
atgcatgctc gagcgccgc cagtgtgatg gatatctgca gaattcgccc ttcgagcgg 60

```

```

ccgcccgggc aggtcctact cttctccgtc cattgtacta tctgcccgtg gtgggggatgg 120
cagtaggatc atatttgatg acttccgaga agcatattat tggctccgtc ataatactcc 180
agaggatgcg aaggtcatgt cctgggtggga ttatggctat cagattacag ctatggcaaa 240
ccgaacaatt ttagtggaca ataacacatg gaataatacc catatttctc gagtagggca 300
ggcaatggcg tccacagagg aaaaagccta tgagatcatg agggagctcg atgtcagcta 360
tgtgctggtc atttttggag gacctcggcc gcgaccacgc taagggcgaa ttccagcaca 420
ctggcgcccg ttactagtgg atccgagctc ggtaccaagc ttggcgtaat catggtcata 480
gctgttt 487

```

<210> 1656

<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 55

<223> n = A,T,C or G

<400> 1656

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tcgcggccga ggtcctaccc ataatccaga gaggcttgcc cagaggagga ctacgtgggg 120
gacgtgccac cagaacccta cttggggggcg ggatgtcact ccgaggtcaa aacctgctcc 180
gaggtggacg agccgtagct ccccgaaatgg gcttaagaag aggtggtgtt cgaggtcgtg 240
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gacgagggag aggtgccctt gctcgccctg tattgaccaa ggagcagacc tgcccggggcg 420
gccgctcgaa gggcgaattc cagcacactg gcggccgtta ctagtggatc cgagctcggg 480
accaagcttg gcgtaatcat ggtcatagct gttt 514

```

<210> 1657

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 78, 91

<223> n = A,T,C or G

<400> 1657

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atgcatgctc gagcgggccg cagtgtgatg gatattctga gaattcgccc tttcgagcgg 60
ccgcccgggc aggtccanac gctgacattg nttctgagtc cttaagcagg aaggatttga 120
aatcctggag cttggcagtc ttgctcttca cctctaagcc aatgttgacc ccttcattca 180
taaagtccac aactctccgg aagtcattct caccggaactg tcgagaagtt aaggctgggg 240
ccccaaagcc caggccgccc ggtgtgatgg cacttcggtc tccaggacag gtgttcttgt 300
tggcagtgat ggatacaagc tctagcaccg gctcagcccg agctccatcc aggcccttgg 360
gccgcaggtc caccagcacc aggtggttgt cagtaccacc tgataccagt gagtagcctc 420
gccctagcag ggcattctgc atggcccagc cattcttcag aacctgcagg gagtactccc 480
ggaacatggg ggtgcaggac ctcgcccgcg accacgctaa gggcgaattc cagcacactg 540
gcggccgtta ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggtcatagct 600
gtttc 605

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<210> 1658

<211> 784  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 3, 4, 10, 19, 22, 53, 76, 85, 87, 149, 184, 713, 747  
 <223> n = A,T,C or G

<400> 1658  
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 agatcacccc tctaattatt tctgaactng gttaataaaa gcttataaga tttttatgaa 180  
 gcanccactg tatgatattt taagcaaata tgttatttaa aatattgatc cttcccttgg 240  
 accaccttca tgttagtggg gtattataaa taagagatac aaccatgaat atattatggt 300  
 tatacaaaaat caatctgaac acaattcata aagatttctc ttttatacct tcctcactgg 360  
 ccccctccac ctgcccatag tcaccaaatt ctgtttttaa tcaatgacct aagatcaaca 420  
 atgaagtatt ttataaatgt atttatgctg ctagactgtg ggtcaaatgt ttccattttc 480  
 aaattattta gaattcttat gagtttataa tttgtaaatt tctaaatcca atcatgtaaa 540  
 atgaaaactg tgctccattg gagtagtctc ccacctaaat atcaagatgg ctatatgcta 600  
 aaaagagaaa atatggtcaa gtctaaaatg gctaattgtc ctatgatgct attatcatag 660  
 actaacggac atttatcttc aaaacaccaa attgtcttta gaaaaaatta atngtgatta 720  
 ccaggtagaa ggacctgccc gggcggnccg ctcgaaaggg ccgaaattcc agccccacct 780  
 gggc 784

<210> 1659  
 <211> 789  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 4, 19  
 <223> n = A,T,C or G

<400> 1659  
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 cccttagcgt ggtcgcgggc gaggtccatt aaagataagt ttggctaact attttactga 120  
 agagactaat ggtcttccct ctgttgact gctatgtttc ttgatctgtt tttccccaat 180  
 gtaacagtct acattgaagt ctttagctc tctccatata ctaattgaca tttgttaagg 240  
 attcaatatt ttgtgaattc tttttaccct taaaatgcat atctttcaga gagataagaa 300  
 tgaattttgc aataatttat atgcagagtg tgcttatggg tttctgggag ttcaagttag 360  
 taccacagag tgcttaaaag tacgatgcta aattctaagg ctaatgtaat gactgtagat 420  
 tatctatgtc cacattgttc aacagaaaata taatgtgaac cacaacataa tttttaattt 480  
 tctagtagcc atattaaaaa agaaaacagc aaaattaatt ttaataacag tttatgtaac 540  
 ccagtatat tttttcttcc atgctaagtc ttagatttga gtgtattttg cactcacagc 600  
 ccttatcctc tttttcttcc atgctaagtc ttagatttga gtgtattttg cactcacagc 660  
 acatctcaat tctgactgga cctgcccggg cggccgctcg aaagggcgaa ttccagcaca 720  
 ctgggcgggc gttactagtg gatccgagct ccggtaccaa gcttggcgta atcatggtca 780  
 tagctgttt 789

<210> 1660  
 <211> 559  
 <212> DNA



```

natggaggaa aagtgaaaag gacttaggct ttagtcctcc atgacttttc ttaagcacta 360
cctacctgta ataagctgag tgcaaaagga tgccgaagaa aatctgcacc cagaagctgt 420
tagaaagcac tgcagangaa cagggnatga ataaaaataa nagntcttaa taaaccctta 480
agattctttg ntcaaggggn actttgccaa aaggggcaga atangnggggn aaagagttgc 540
ttttaatcta gctctacact ggcntttgaa aataaaattt gccatttng aaatatatng 600
ggntataatt aaaatgnggc tttttacact gngngggcta tataaaaact gggtagtnaa 660
atttccaccg agcatntatg gngatttgnt cacagnaaac ctccgggng gacccacgct 720
aaggngngaa ttccagcnac antggggggg ncnngntacct anagtggatc ccnagnctng 780
gggncccnna anctttgggg gngtnaatc                                     809

```

<210> 1663

<211> 585

<212> DNA

<213> Homo sapiens

<400> 1663

```

ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacgga tgatgaagat 120
gatatctaca aggctaataa cattgcctat gaagatgtgg tcgggggaga agactggaac 180
ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300
gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
gcctatttga aaagggttagt aaatgctgca ggaagtggga gggttacagaa tgggcaaaat 420
ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctcagtctat ttatcagacc 480
tcggccgcga ccacgctaag ggcgaattcc agcacactgg cggccgttac tagtggatcc 540
gagctcggta ccaagcttgg cgtaatcatg gtcatagctg tttcc                                     585

```

<210> 1664

<211> 999

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 2, 5, 10, 22, 83, 150, 176, 189, 264, 275, 283, 286, 302, 311, 318, 338, 374, 524, 528, 531, 536, 541, 606, 611, 614, 616, 621, 634, 635, 636, 644, 659, 682, 688, 702, 715, 723, 726, 768, 777, 779, 789, 796, 802, 810, 819, 831, 836

<223> n = A,T,C or G

<221> misc\_feature

<222> 853, 854, 869, 874, 893, 900, 903, 911, 989, 999

<223> n = A,T,C or G

<400> 1664

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ccgcccgggc aggtctgaca atngattaaa caggcgacat gcaaccccca ctaagggttaa 120
aagtccaaaa ctactcacac gcatctcttn attggggaaa agctgagact attatncatt 180
cttggtagnc ttgcaacctt gcatgaagag caccatttgc atttctttca tctttcagaa 240
agcaccggta tctgttccaa gggcnctaaca gtacnaaaat acnttntggg attacacctt 300
tnaaacccaa nactgttntc attaaaaata attttggnnt gtaacaaaat tatgaaatac 360
aatgcaagca cctnggtata gcattattac tgaaaccact taattcccag ctttttgagt 420
tttttaaaaa aaccacttgc actaagattc acaattcatt gctacatata aattaaagct 480
agtaagaaca cactaacgtc acaagtttct cattctaaag tgcnaaancc ntaatngtct 540

```

```

ngaaagtgga acaggggttaa agggcaaaaa ttaaccccc ccacccaat taaagtttcc 600
tggaangtca ntantntttt naatcccca aggnnnncatt tctnttttaa aaaattggnt 660
accttttgga ctgggggtaaa gnaaaatnag gaacccttg gnggtttttt ttatnttttc 720
ttnaanccaa cccccaatt ccaccttaaa aacccccacc cgggggangg ccaaaangnc 780
cacccttgng gaaacncttt tngtgggggn cccggtcgna aaaccaacc nccctntaaa 840
aagggggggg cgnaaaaaa tttctccna aganaaacc acctttgggg cgnggggacn 900
cgntttaccc nttaaaatgg gggaattcc ccgaaagcgt ttgggggttaa ccccaaaaga 960
cctttggggg gggaaaaatg aatgggggnc cattaaccn 999

```

<210> 1665

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1665

gctaaagggtg accccaagaa accaaag

27

<210> 1666

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1666

ctattaactc gagggagaca gataaacagt ttcttta

37

<210> 1667

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1667

```

Met Gln His His His His His His Ala Lys Gly Asp Pro Lys Lys Pro
 1          5          10          15
Lys Gly Lys Met Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg Glu
 20          25          30
Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu Phe
 35          40          45
Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Gly Lys Glu Lys
 50          55          60
Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp Arg
 65          70          75          80
Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp
 85          90          95
Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser
100          105          110
Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly
115          120          125
Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser

```



ccacgaaggt aggggtcacg tcttgatcc ttttgcctta atctcagtgc tcgttacttc 1200  
atgggcccaa gatggctgct gtatcccaa gaatcatgtc tgcgttcaag gaaggagggg 1260  
tggaggaaga ggaagggcc aactagctgg acccgtcacc ttctatcaga aagtaaaacc 1320  
tcgtcagaag tctgtttcct gctctctccc tctgcatac ttcacttaga tgccttggc 1380  
ccgagccagc taccattgca cctctagctg caaacaagc taagacagca gggaacagaa 1440  
ttgtcatggc tgaatagacc aatcgtgttc catctactga gactggcaca ctgcctcctg 1500  
caataaaact gggatcccat taccaagaga gaaatgcaga attgtgtacc agttagcttt 1560  
tgctgtgtaa caaaccatcc ccaaacttgg cagctagaaa caaacctgt attttccac 1620  
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atgtggcctc tccagcaggc tagctcaggc ttattcacat gatggcttca ggattccaaa 1860  
gagagtgaga gtagaagctg aaagacttct tgagttcttg gcctggaact gggactagga 1920  
cagtgtcact tctgctaagt tcttttggtc agagcaaadc acaaggcttt acccagattc 1980  
aagggatgag aaacagacta catgtcttga tgaggggaac cacaaagagc ttgtggccat 2040  
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tccccctttc tctctgtctc atggggcctc actctgcaa gttggaaggc actaagacat 2160  
tgtcctggcc ctacagggtct aggggaagag gtgttggggc aggaagttag tctctccatg 2220  
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aggtaggaca ttccagaggg gcttctgaaa accaagagtc cctggggaaa gggaacagag 2340  
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taatttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820  
a 2821

<210> 1670

<211> 137

<212> PRT

<213> Homo sapiens

<400> 1670

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Gly | Leu | Arg | Ala | Gly | Gly | Thr | Leu | Gly | Arg | Ala | Gly | Ala | Gly | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Ala | Pro | Glu | Gly | Pro | Gly | Pro | Ser | Gly | Gly | Ala | Gln | Gly | Gly | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | His | Ser | Gly | Arg | Ile | Ala | Ala | Val | His | Asn | Val | Pro | Leu | Ser | Val |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu | Ile | Arg | Pro | Leu | Pro | Ser | Val | Leu | Asp | Pro | Ala | Lys | Val | Gln | Ser |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Leu | Val | Asp | Thr | Ile | Arg | Glu | Asp | Pro | Asp | Ser | Val | Pro | Pro | Ile | Asp |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Val | Leu | Trp | Ile | Lys | Gly | Ala | Gln | Gly | Gly | Asp | Tyr | Phe | Tyr | Ser | Phe |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Gly | Gly | Cys | His | Arg | Tyr | Ala | Ala | Tyr | Gln | Gln | Leu | Gln | Arg | Glu | Thr |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ile | Pro | Ala | Lys | Leu | Val | Gln | Ser | Thr | Leu | Ser | Asp | Leu | Arg | Val | Tyr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Gly | Ala | Ser | Thr | Pro | Asp | Leu | Gln |     |     |     |     |     |     |     |
|     | 130 |     |     |     |     |     | 135 |     |     |     |     |     |     |     |     |



```

<400> 1671
Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly Glu Ser Arg Gly
  1              5              10              15
Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg
              20              25              30
Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Ala
              35              40              45
Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala
              50              55              60
Ala Glu Arg Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln
  65              70              75              80
Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala
              85              90              95
Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg
              100              105

```

```
<400> 1672
Met Gly Leu Lys Ser His Val Leu Pro Ala Pro Asn Ser Gln Gly Gln
  1          5          10          15
Gly Ser Leu Cys Ile Phe Val Tyr Val Thr Ser Tyr Met Asp Tyr Ile
      20          25          30
Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly Leu Asn Lys Gln
      35          40          45
Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp Gly Trp Leu Met
      50          55          60
Val Leu Val Val Gln Gln Leu His Glu Gly Arg Gly His Val Leu Asp Pro
    65          70          75          80
Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser Gln Asp Gly Cys
      85          90          95
Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg Arg Gly Gly Gly
      100          105          110
Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe Tyr Gln Lys Val
      115          120          125
Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro Leu His Ile Phe
      130          135          140
Thr
145
```

<210> 1673  
<211> 117

<212> PRT  
 <213> Homo sapiens

<400> 1673  
 Met Asp Tyr Ile Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly  
 1 5 10 15  
 Leu Asn Lys Gln Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp  
 20 25 30  
 Gly Trp Leu Met Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His  
 35 40 45  
 Val Leu Asp Pro Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser  
 50 55 60  
 Gln Asp Gly Cys Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg  
 65 70 75 80  
 Arg Gly Gly Gly Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe  
 85 90 95  
 Tyr Gln Lys Val Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro  
 100 105 110  
 Leu His Ile Phe Thr  
 115

<210> 1674  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1674  
 Met Asp Ser Gly Asp Gly Trp Leu Met Val Leu Val Gln Gln Leu His  
 1 5 10 15  
 Glu Gly Arg Gly His Val Leu Asp Pro Phe Ala Leu Ile Ser Val Leu  
 20 25 30  
 Val Thr Ser Trp Ser Gln Asp Gly Cys Cys Ile Pro Lys Asn His Val  
 35 40 45  
 Cys Val Gln Gly Arg Arg Gly Gly Gly Arg Gly Arg Ala Lys Leu Ala  
 50 55 60  
 Gly Pro Val Thr Phe Tyr Gln Lys Val Lys Pro Arg Gln Lys Ser Val  
 65 70 75 80  
 Ser Cys Ser Leu Pro Leu His Ile Phe Thr  
 85 90

<210> 1675  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1675  
 Met Gln Asn Cys Val Pro Val Ser Phe Cys Cys Val Thr Asn His Pro  
 1 5 10 15  
 Gln Thr Trp Gln Leu Glu Thr Asn Pro Val Phe Ser His Asn Pro Met  
 20 25 30  
 Gly Trp Gln Phe Gly Leu Gly Ser Thr Gly Gln Phe Cys Cys Ser His  
 35 40 45

1001674-1001675

Leu Gly Ser Leu Met Glu Leu Arg Ser Ala Val Thr Ser Ala Gly Pro  
 50 55 60  
 Gly Trp Ser Arg Ile Ala Leu Leu Thr Cys Leu Ala Gly Asp Arg Leu  
 65 70 75 80  
 Leu Ala Gly Ile Ala Trp Phe Ser Ser Met Trp Pro Leu Gln Gln Ala  
 85 90 95  
 Ser Ser Gly Leu Phe Thr  
 100

<210> 1676  
 <211> 1336  
 <212> DNA  
 <213> Homo sapiens

<400> 1676  
 ctctaagcag catgtaacct ggcctgcac caggaaatag aggacttcgg atccttctaa 60  
 ccctaccacc caactggccc cagtacattc attctctcag gaaaaaaaaa aaggtcccca 120  
 cagcaaagaa aaggaatagg atcaagagat acgtggctgc tggcagagca agcatgaatt 180  
 cgatgacttc agcagttccg gtggccaatt ctgtgttggg ggtggcacc cacaatgggt 240  
 atcctgtgac ccaggaatt atgtctcacg tgcccctgta tccaaacagc cagccgcaag 300  
 tccacctagt tcctgggaac ccacctagtt tgggtgtcgaa tgtgaatggg cagcctgtgc 360  
 agaaagctct gaaagaaggc aaaaccttgg gggccatcca gatcatcatt ggcctggctc 420  
 acatcggcct cggctccatc atggcgacgg ttctcgtagg ggaataacctg tctatttcat 480  
 tctacggagg ctttcccttc tggggaggct tgtggtttat catttcagga tctctctccg 540  
 tggcagcaga aaatcagcca tattcttatt gcctgctgtc tggcagtttg ggcttgaaca 600  
 tcgtcagtg c aatctgctct gcagttggag tcatactctt catcacagat ctaagtattc 660  
 cccacccata tgcctacccc gactattatc cttacgcctg ggggtgtgaac cctggaatgg 720  
 cgattttctg cgtgctgctg gtcttctgcc tcttggagtt tggcatcgca tgcgcatctt 780  
 cccacttttg ctgccagttg gtctgctgtc aatcaagcaa tgtgagtgtc atctatccaa 840  
 acatctatgc agcaaacc a gtgatcacc cagaaccggt gacctacca ccaagttatt 900  
 ccagtgaag ccaagcaaat aagtaaggct acagattctg gaagcatctt tctactgggac 960  
 caaagaagt cctcctccct ttctgggctt ccataacc a ggtcgttctt gttctgacag 1020  
 ctgaggaaac gtctctccca ctgtttgtac tctcaccttc attcttcaat tcagtctagg 1080  
 aaacctgct gtttctctat caagaagaag acagagattt taaacagatg ttaaccaaga 1140  
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<210> 1677  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens

<400> 1677  
 Met Asn Ser Met Thr Ser Ala Val Pro Val Ala Asn Ser Val Leu Val  
 1 5 10 15  
 Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly Ile Met Ser His  
 20 25 30  
 Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly  
 35 40 45  
 Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys  
 50 55 60

1001-1001

```
<210> 1678
<211> 177
<212> PRT
<213> Homo sapiens
```

|          |     |     |     |          |     |           |     |     |           |     |     |     |     |           |     |
|----------|-----|-----|-----|----------|-----|-----------|-----|-----|-----------|-----|-----|-----|-----|-----------|-----|
| Thr<br>1 | Arg | Pro | Arg | Arg<br>5 | Ala | Ala       | Gln | Gly | Arg<br>10 | Arg | Glu | Ala | Pro | Pro<br>15 | Gly |
| Gly      | Glu | Pro | Glu | Pro      | Arg | Ala       | Ser | Leu | Ala       | Ala | Pro | Gly | Glu | Arg       | Ser |
|          |     |     | 20  |          |     |           | 25  |     |           |     |     |     | 30  |           |     |
| Arg      | Ser | Arg | Ala | Gly      | Asp | Arg       | Gly | Val | Glu       | Ala | Gly | Pro | Arg | Arg       | Gly |
|          |     | 35  |     |          |     |           | 40  |     |           |     |     | 45  |     |           |     |
| Arg      | Gly | Arg | Asn | Ala      | Arg | Cys<br>55 | Pro | Gly | Thr       | Gly | Pro | Asn | Pro | Pro       | Ala |
|          | 50  |     |     |          |     | 55        |     |     |           |     | 60  |     |     |           |     |
| Ala      | Arg | Asn | Gly | Met      | Ala | Arg       | Pro | Glu | Leu       | Arg | Pro | Gly | Gly | Gly       | Gly |
| 65       |     |     |     | 70       |     |           |     |     | 75        |     |     |     |     |           | 80  |
| Glu      | Ser | Arg | Gly | Gly      | Gly | Asp       | Asp | Gly | Ala       | Ala | Cys | Arg | Arg | Asn       | Ala |
|          |     |     |     | 85       |     |           |     |     | 90        |     |     |     |     | 95        |     |
| Gly      | Gln | Gly | Arg | Arg      | Gly | Ser       | Gly | Gly | Ala       | Arg | Gly | Ala | Arg | Ala       | Glu |
|          |     |     | 100 |          |     |           |     | 105 |           |     |     |     | 110 |           |     |
| Arg      | Arg | Arg | Ala | Gly      | Arg | Gln       | His | Pro | Leu       | Gly | Pro | His | Arg | Arg       | Gly |
|          |     | 115 |     |          |     | 120       |     |     |           |     |     | 125 |     |           |     |
| Ala      | Gln | Arg | Ala | Ala      | Glu | Arg       | Ala | His | Pro       | Ala | Ala | Ala | Val | Arg       | Val |
|          | 130 |     |     |          |     | 135       |     |     |           |     | 140 |     |     |           |     |
| Gly      | Pro | Arg | Gln | Gly      | Ala | Glu       | Pro | Arg | Gly       | His | Asp | Pro | Gly | Gly       | Pro |
| 145      |     |     |     | 150      |     |           |     |     |           | 155 |     |     |     |           | 160 |
| Arg      | Gln | Arg | Ala | Pro      | His | Arg       | Cys | Pro | Leu       | Asp | Gln | Arg | Gly | Pro       | Gly |
|          |     |     |     | 165      |     |           |     |     | 170       |     |     |     |     | 175       |     |

Arg

<210> 1679  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1679  
 Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile  
 1 5 10 15  
 Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro  
 20 25 30  
 Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys  
 35 40

<210> 1680  
 <211> 717  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 22, 586, 687, 714  
 <223> n = A,T,C or G

<400> 1680  
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 ttgtatcttt tatttaggtg ccaaggata acccactgct tgaacttggt ccagatgatt 180  
 cttccaaaga tgtctcttct ccaagcacca ggtctagctc tttcttgacc agtctgaaga 240  
 agccttaggg catcttctct ttcctggaca actttatcta atgcatccat ggaatctact 300  
 accttatcta accgctctgg acttggcatt ggcaatctct gccgcttggc ctccctgctct 360  
 agggttagaa gcatgtttct ttctttcagt aagacatacc aaagtttggt taaatcttca 420  
 ttacttttgt tccttagttg ctgacaggtc catgctgctc cagattttac tttttcttgc 480  
 ccccagtttt ttgggtcatc aaaaaattct tctagtcctt tccttgacaa tgtggtatga 540  
 agtaatctat attggtgaaa ggatgtcaca tttggtgtac tcttangcaa caaactaaga 600  
 aaaaaccctg tcaggcaggg acctgaggag ttattaacga accgggaaga attcagggcg 660  
 gatgaaactc tcctaccaag aaagggncaa accgggccgc agccatgttt tccncat 717

<210> 1681  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<400> 1681  
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 aagaaattca agaaaacaaa taaatacagg ggtatactat attcatgaat tgggagaatc 120  
 aatatcatta ttaagtctcc tcagattgat ctatagattc acagaaatcc caattcaaac 180  
 cctatcagga ctattttagt aaatagacac actgatgata aaattttacat agaaacacaa 240  
 aggaagcaga atagccaaaa attattgggg aaaaaatgta gttgaaggat tcccattact 300  
 ccttt 305

<210> 1682  
 <211> 498  
 <212> DNA  
 <213> Homo sapiens

<400> 1682  
 aaattaca'ct ccataaattt agacatatgt ctctccaagt aagtacgagc tgattgggaa 60  
 cgggctccaa tggacatggc tctgcagtca aaatagttag cagatggaca ggtttggaaa 120  
 atgtgagggc ccatatcatc ataaccagca ataaggagac caacaccata tggctctccgg 180  
 ccatatcggt gtgttggtat ctgggtctct tagactgggt aacgagcttg ttttaacaag 240  
 gaatgaagta ctgtctttat tttcaaatta tacattatta acaaaggctc ctggcttatt 300  
 ctttaattgt tgcataatcc accagagaaa taatgcaata ggacactatt tctttggcct 360  
 aatataaaat gtttgacttt ctaccgaacc taagaaagag tgccagcaaa ataatttctt 420  
 cccatctaaa acctgatttg ttttggtatc aaggggggtc aggatttctt gggacatcta 480  
 gaaccattaa gaaacttt 498

<210> 1683  
 <211> 322  
 <212> DNA  
 <213> Homo sapiens

<400> 1683  
 aaaaattaaa aatagcacia ttctacaatt ctgattttac caagaaaata aacctttttt 60  
 ggcacatatt atcctatgaa aatggaaagc tgagtcaggc tgctctgctt ttcacagcac 120  
 aaataagcat tcatgctatc agacttgagg aattaactcg gtgacaaaaa ttcactggaa 180  
 aatagaatcc ttggaaaaat ggggtcagggt gccatccact gagaggcaat gataatgtgt 240  
 gtccttcgtt attagcacia agttaggcag cacactataa ttttagctac atgcaactct 300  
 ataggaaacac atgtgggtaa gg 322

<210> 1684  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 51, 182, 188, 195, 203, 220, 246  
 <223> n = A,T,C or G

<400> 1684  
 aaaagatgct gcttccctgt tttcttccag gaacacagag accaacacgg nttcaaacac 60  
 agggcgagct tctcactatt tcctgggaat gttacttctc agcccaacac ttctcttccc 120  
 aagaagttca agttttgaga ctgtttttct ccccgggaaca gtacttaaaa aaaaaaaaaat 180  
 cnttgatntt caaanatggg ttnttttctg gtccctggaan agcatcagta actaaatct 240  
 aagttntcca caatgctgcc cccctgggg ggctaaccgg atgccaaggg aga 293

<210> 1685  
 <211> 390  
 <212> DNA  
 <213> Homo sapiens

<400> 1685  
 aaattgtcta actcctatcc cagttttctt ttatagtcta aaaacaagga atcacccaag 60

```

taagatactc cttcagagca ctgctgaaaa cggatcaaac gtagagatcc cccagatccc 120
tggtctcaag tgtaaaaaat attttatatt agcacataga atacccttag atatattctg 180
ttatgttcta aagagtttgt gtttccccct ttttgatgat gtottcaatt tcttctgaga 240
cctttcctgt atagtcattt ggttctattg cttttaactt ctcttgatac tccagcggca 300
aaccattttc ttttgacccc atgcaaataa tctttttata ctgtggggat gggggagcac 360
tttcgtaatt tgtcatcaga taacttcgac 390

```

```

<210> 1686
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<400> 1686
gggtccagtc caacctgctc ctcattattg taaacatgtg cagaatcaat atggtggaac 60
ccggcttcta ttgccaatth gacggcctct agagctttac ttttaggaac ctgggggagc 120
aaccaaaacgt aatattttct gactaatgtg cctgagagtt agttcgggca caagcagcaa 180
cgttcacaaa aatcagcttt tcctcctttc ttggatgagc tctgtatgta gaatcataag 240
cccatcccag tctgactggg tctttcccat ttagtaataa aggttgggca tagcaggaac 300
ttctgcagtc ccagaaaaat cactgaaagt ggaagtgtcc ccaaaacaat ttcactttca 360
gtgatttttt ggaaaaatca acaggacgca actatagtta cagacataat cttaattatt 420
tttagtatgg tgaaattaac acaaggaaat agccacatgg aaggaattat gaaggaatgc 480
agtgtgaagct cctgtgattc ctctcccacc atgttgacaca gagcgactg actttatcca 540
gcatcatat 549

```

```

<210> 1687
<211> 442
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 34, 50, 67, 382, 384, 385, 435
<223> n = A,T,C or G

```

```

<400> 1687
caactgcaaa tgaagatcct ttttgatac ttgntgagaa agacacattn gggggggggg 60
tgtgacnaaa ataacgatgg ccggcttgat cccaagagc tgttaccttg ggtagtacct 120
aataatcagg gcattgcaca agaggaggcg cttcatctaa ttgatgaaat ggatttgaat 180
ggtgacaaaa agctctctga agaagagatt ctggaaaacc cggacttggt tctcaccagt 240
gaagccacag attatggcag acaggctcca tgatgactat ttctatcatg atgagcttta 300
atctccgagc ctgtctcagt agagtactgg ctctttttat aatttggtac cagctttact 360
tttgtgataa aatattgatg tngnntttta cactcttaag tottaaccac agtcacaatt 420
atcttaatgt agatnataat tg 442

```

```

<210> 1688
<211> 340
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 52, 56, 58, 60, 62
<223> n = A,T,C or G

```

<400> 1688  
 ctgccagcta acagcaagag cnttgagggc atcactgaac agatagcacc tnatgngntn 60  
 tnatgattca aaaatctccc ttgctgttgg atttaccac acgtaggctt ttatttcttc 120  
 ccattacatc tgttttagcca cagaaagcat cgggccatac tcaactgcaga agataagact 180  
 tcctcagaat cttatttgtt tagtgcactc aattttactt cactgtctca tcacttgaga 240  
 gactgggttaa ggcaagaaac ccattttctta acattttttt tgttttcaaa catttgaaaa 300  
 gcaacaccaa aacgtatgca gttaattcct caattctttc 340

<210> 1689  
 <211> 140  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 61  
 <223> n = A,T,C or G

<400> 1689  
 ccagagggcc tgcacatgca atttccagtc cctgccttca gagagctgaa aagggggcct 60  
 nggtctttta ttccagggct ttgcacgcgc tctattcccc ctctgcctct cccaccttc 120  
 tttggagcaa ggagatgcag 140

<210> 1690  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<400> 1690  
 gagattatta cccagaattc acatgtaggg atggggaagg acaatttttt tttaactaaa 60  
 aaagttagcg gcaggggtgg ggggtggcaa tcatttttct tcctatacat acaaaggata 120  
 ttgtcaaaaa tggcgttctt ctctgttggc ctgttattct gattgctgct gtatacagtt 180  
 ttgtcactct ttagttttta gttaagcata ctgatagact ttctctataa agccattcac 240  
 tccagatttt acctggggaa tattctacat actgcttact ttctctataa aactcatcaa 300  
 taaatcatga aaggcactga gttttgtaaa tcaggaccct aaatgtttta ttgtaataaa 360  
 gtttcagata attattatag ctttgcggtg aagtttggtg ttttttttct caactagtta 420  
 agtcaactgc ttctgaaata actctgtatt gtagattatg cagatcttta caggcataaa 480  
 tattt 485

<210> 1691  
 <211> 342  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 11, 24, 26, 49, 50, 51, 53, 61, 62, 142, 173, 190, 193, 242,  
 250, 291, 303, 304, 315, 329  
 <223> n = A,T,C or G

<400> 1691  
 gaagaaacaa ngatgacttt tttanaaaca aagcataatg ctggcaatnn ngnggggggt 60  
 nnagttttcc aaacatgtta tcttaaatac ccttttatcc ttacaggttg acataacttt 120  
 gaatgtttta acagcaagaa tnttaagaaa agataaacac cattttattt atntataaaa 180



```

acaaaattan ttncaaatat ttttgacatt gtgatttttt ttttccacat ttctcagcaa 240
anctaattggn attttaatca ttattttttgc ctgtcataag aaaactctta nctgaaatgg 300
ccnnaaaact gtganacatg ctatggaanc tgaatgccgg ac 342

```

```

<210> 1692
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 59, 60, 409, 417
<223> n = A,T,C or G

```

```

<400> 1692
aaaaatgggg ccccaaagac tgntaagagc tcatccccgt ggtctcctat caccgggggnn 60
gggggttcatg tctgatgaga agcttggacg gtactgaaac tcatacatgt aggtgggtgc 120
tccagcatct ctgtgggtcc gggccacaat cacagatggg acaccaaaca tcacatctgc 180
tatcaagtcc aggaacaggt ctttcttttt gacagtgtcg tctgttcctc ctaagtattt 240
ctcagtggct tctggaatca gttccttagc aatgcaaaca aggggatagg acttccacag 300
gagtgcacatg gctgtcttct ggtccagttg cccttcggag agtggatagc tcatcaactg 360
cattggaatc aaccagccaa actcctgctt gttaattccg accatgtang ggacagngtg 420
gaaattcctt tcagcttgaa agctcttcag 450

```

```

<210> 1693
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 20, 51, 52, 58, 62, 286, 323, 333, 375, 385, 399, 401, 402,
407, 410, 426, 432
<223> n = A,T,C or G

```

```

<400> 1693
ctatttttatt aacatcatgn tttaataaat aactggctac ttctaataaa nnggggggnt 60
cngttttacaa cagcccccaa tattccattt tgaccactct gcagaatttg gtgtaaaaag 120
ttgaatgaaa tgtagaccct gagctatcaa gtaattatgt ttcaatataa aaatagagaa 180
ttactcttac aactgaagat tgaacaataa cacaaacaac ctctttgtgg gtttttaggt 240
cggtaaaaatt agttgggatc ttaatggctg tctaaagcag gaaganacag aattttaatc 300
tttctgaaga cttctgggaa ctnccttgaa agngatttgt taccttatca gagtttatga 360
gctattattt tggtnaaggc acaangaaag gattcccang nngttgntan tcttttgccc 420
tggaacnaaa anattg 436

```

```

<210> 1694
<211> 313
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 29, 32, 34
<223> n = A,T,C or G

```

<400> 1694  
 attatctgca aggttttttt gtgtgtgtnt tngnttttat tttcaatatg caagttaggc 60  
 ttaatttttt tatctaataga tcatcatgaa atgaataaga gggcttaaga atttgtccat 120  
 ttgcattcgg aaaagaatga ccagcaaaag gtttactaat acctctccct ttggggattt 180  
 aatgtctggt gctgccgcct gagtttcaag aattaaagct gcaagaggac tccaggagca 240  
 aaagaaacac aatatagagg gttggagttg ttagcaattt cattcaaaat gccaaactgga 300  
 gaagtctgtt ttt 313

<210> 1695  
 <211> 522  
 <212> DNA  
 <213> Homo sapiens

<400> 1695  
 ccattttcag gggaagcttg ggagagcaat agtatggtga gccccttaga gatgagcgcc 60  
 tactccttct tggcgaatgc tgccttcaga tgcttaccaa gtggtcactg catctagtaa 120  
 gattatattt ccagtacact tccttagggc agaaacacca tcctatcagg tttggtcagt 180  
 cccttcttca tgaagggagt catggggaat tcctgaaaat tttcttcctt ctgcagacag 240  
 ttggatgagt cccttagaga aggcattccag agacataact aaactgaata tcatcccata 300  
 ttgatttttag gaattgactc taaaactctg tgcagaatct tgtgttgga ttgtatcttg 360  
 acattcctgt tgtgttattt ttcttaactg gagtgtgtgc tgcctttcag gtacaatttt 420  
 tgtgtaataa aagccagtgc attaagttta tatagactac tttctatgca agactgagat 480  
 atggaataga taggaagaga tatgtactgc tgggtacatg ga 522

<210> 1696  
 <211> 174  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 52, 55  
 <223> n = A,T,C or G

<400> 1696  
 ccagccattg cctggcattt ggtagtatag tatgattctc accattattt gncanggagg 60  
 cagacataca ccagaaatgg gggagaaaca gtacatatct ttctgtcttt agtttattgt 120  
 gtgctgggtct aagcaagctg agatcatttg caatggaaaa cacgtaactt gttt 174

<210> 1697  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 22, 55, 56, 198, 265, 374, 378, 399, 410, 465, 543, 549  
 <223> n = A,T,C or G

<400> 1697  
 ctgtaatgtt attgcagatc cncatctctc gctcaactgt taatgtctca acctnnagag 60  
 gcacccacc cagcacactg tcagtaaagg ggcagattga aacagtgaga gttaagggta 120  
 cagtagaaaa ttctgcatgt ttgcagtgc tagaatcaga tagtagtgtg gtggtttttt 180

```

tttttaatca ttatgaanag tgggagcttg caggtaaggc ttctgtggtg gtttgaaaag 240
cagaaagcaa taaatgaaac aaagngtttg tgtaatatat tcctgccttg tcttccttcac 300
tcagagttga aataggtttt gcagtaaagc tggaaaaaaa aagaaaacaa atgttcaaaa 360
ctgtgtgtgt tggngggngg aatttccttt gcttatagna gtttcagagn aactatatgt 420
tttttttctt ttctttttca caggcacaga aaactgaatc tgtanataac gagggaaaat 480
gaattgcatg aaaaattggg gttgatttta tgtatctctt gggacaactt ttcctcggcc 540
gcnaccacnc taaggcgcaa t 561

```

```

<210> 1698
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 58, 62, 63
<223> n = A,T,C or G

```

```

<400> 1698
cgaggtctgc cctcgattgt gtattttctgt tggatcaaac actcccatgt taccactnng 60
cnncataatg tatcgatata tattccaagt ggcaacaggt aagttgagaa ggaagatgaa 120
ccagtgcgat gacatgagca gtaatacagt gacaatggta tggccactta aattaaaaat 180
ataacaaaat tgaaaaatag acatataacc aaaaagattc taaatcttgc aaggaaaaaa 240
agaataaagc tgccaataag ttattttt 267

```

```

<210> 1699
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 1699
tgtaagatt ttttttgcta caaagaggag gtggcaatgg tagatccacc cttatgcttc 60
tcagtttagc ataacctctt atggattttc atcaaattca gcgtgttggg cactggaaaag 120
agccttttcc ttctcctttt cttactctcc cctcatggtg ttcccctctt aaaggagagg 180
agcttttaat ttacacttac cacctcattt gcttttctgg aggccatgca atataggcgg 240
gactacagag ttaatctcct ttttacaaat gaggccaaga gaagcctcat tggttcacag 300
tcatgcagct catactgtcc acccttgat tctcagatgc aggacaattg cattttagtt 360
ttattttgtg gaggtgcaga atatttactc tttctgtcca acccttgatt ctgccgagga 420
agacactgat ggtttgatga gtgattcag 449

```

```

<210> 1700
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 1700
acatttcaca aataagatgt agctttccaa acaaatccat tcgatgacca ttatcacaaac 60
tatattttat tctaatttat aaaacaaaaa atggttagac aagcacatga tatcaagagt 120
cttcaacaca gtggattcca ttttattaag aaaaaaata gaaaacaagt agtccttaaa 180
ttgtcttagc tctccatagc atacgttata taaaattaaa gttttgcttc caaaaatatg 240
tttccatgtg gtcgtggtgt tgtccagtgc tattagggcc aaagcaccaa agacatgaga 300
agtttaacca tcgacttgct atttttcata aaagctaaac atttccttat aggtctggag 360
taaaatcttc taggcatttt agtgctaaaa gtcacttt 398

```

T00754.F00301

<210> 1701  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 4, 12, 13, 27, 47, 53, 61, 63, 76, 77, 78, 79, 86, 87, 88,  
 89, 92, 93, 97, 100, 101, 103, 127, 129, 130, 133, 134,  
 141, 142, 143, 147, 149, 152, 155, 164, 166, 174, 185, 188,  
 194, 203, 205, 220, 228, 237, 238, 240, 241, 246, 251  
 <223> n = A,T,C or G

<400> 1701  
 aaanaacact annggacctt agagatnata actgtttgat aatttgncctc agnccgtattg 60  
 ncntaaaaga tatatnnng gggggnnnnt cnnctgnaaa ngntgtttgg attgcctgat 120  
 attatancnn ggnggttggg nnntatntna cncantatac ctcnngcgcga accncgctaa 180  
 tggcnagnat catnacactg gcngncgtta ctactggatn cgagctcngt gccaatnncn 240  
 ncgtentcat ngcccta 257

<210> 1702  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 476  
 <223> n = A,T,C or G

<400> 1702  
 acctaattna ttgaagtaat aaccaaaataa ttttcaatct tgattcaact gtgattcaaa 60  
 tcttacacca tttgccact tctatgaatt ttatgtataa aattttttta gagtcagagt 120  
 tttttttctt gattaattgg atgtatttca cagaatttcc aactgctcac gttagttttc 180  
 ttccttttag agttgatctc tctaattgtat tagatcttca tgcctttgat agtctctctg 240  
 gaataagttt gcagaaaaaa cttcagcatg tgccaggaac acaacctcac cttgatcaga 300  
 gtattgttac aatcacattt gacgtaccag gaaatgcaaa ggaagaacat cttaatatgg 360  
 ttattcagaa tcttctgtgg gaaaagaatg tgagaaacaa ggacaatcac tgcattggagg 420  
 tcataaggct gaagggttg gtgtcaatca acgacaaatc acaacgagtg attgtncagg 480  
 ggggtccatg agctctggtg atccgggagg agactccaat gagctg 526

<210> 1703  
 <211> 116  
 <212> DNA  
 <213> Homo sapiens

<400> 1703  
 gacctccgaa ctgagctcta atttagctga tcagattttg cttgggtaaa gttccttttt 60  
 aatgttctaa agtggtttacg gttctcaa atcagttaaa aactaatttt aggtgg 116

<210> 1704  
 <211> 241  
 <212> DNA  
 <213> Homo sapiens

1001754-1001754

<223> n = A, T, C or G

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| aataatttgtg | taattgttaa | atgtccagtt | ttgctctggt | ttgcctgaag | ttttagtatt | 60  |
| tgttttctag  | gtggacctct | gaaaaccaa  | ccagtacctg | gggaggttag | atgtgtgttt | 120 |
| caggcttgga  | gtgtatgagt | ggttttgctt | gtattttcct | ccagagattt | tgaactttaa | 180 |
| taattgcgtg  | tgtgtttttt | tttttttttn | aggggctttg | tttttttttn | tcaanaaaaa | 240 |
| t           |            |            |            |            |            | 241 |

<213> Homo sapiens

<223> n = A, T, C or G

|            |            |            |              |            |            |     |
|------------|------------|------------|--------------|------------|------------|-----|
| ggtcctgtnt | anacacacat | caatatgaaa | caaaaaaaaaat | ttatataaat | aagtcaatta | 60  |
| aacttcacaa | aaactaaaga | aacacaagac | aaaaatccaa   | caagcaataa | aaactgtaca | 120 |
| atattggtca | gtcttttata | tctgaaaaat | gtgtaactta   | aaaaaaagtt | atttatcgta | 180 |
| taaaaaaagt | cttttacatc | tgtgttagct | ggagtgaaaa   | cttgaagact | cagactcagt | 240 |
| ggaaacagat | gaatgtccac | ctcgctttcc | tttgagaggg   | atcttgaggc | tggaccctct | 300 |
| gctcacagag | gtgagtgcgt | gctgggcaga | ggtttt       |            |            | 336 |

<213> Homo sapiens

```

agggtggctc tgggagcagt tgtgctgcgg gcttgctggg ggagaactct aactgttgca 60
qaaacagagc ttcattgctt gcttaaatta cttagctgga atatattt 107

```

<213> Homo sapiens

<223> n = A, T, C or G

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| ttttttgtct | ggtaattata | tattttattat | ttagcaaaaac | tgaagaaaaa  | aagcacagaa | 60  |
| ttgtttcaac | agatgtctct | cattttcagc  | tagcattttct | ctcccaagtt  | gagctggttt | 120 |
| aatgtgtttt | ggatttcctt | cctcaattgg  | cttattttttt | agatca.cttg | caattcattt | 180 |

```

gcaaattgca ataaaacaca ttttagaaaa aaggaacctt caattattag ctttgtttct 240
ttttaaatgt atatatatttg actaatgttt gtgaatgaag ttggctaaca tgtatttagt 300
ttcatttttg cggtagttaa tataaagttt ttaaaatttt aaatatgggt ttaaccttta 360
tgtgtaaatg attttctagt gtgaccttct aatttaatat tagacgtcta aggtatatct 420
gtaaattaga atccgactat cactctgttc attttttttg aacaaagngn ttaaagaaag 480
cctgaaccag ggaaaaaaaa aaaaaaaaaa aa 512

```

```

<210> 1708
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 28, 36
<223> n = A,T,C or G

```

```

<400> 1708
aatcttctaa aggaagaaca gaccccnag aataanatta cagttgttgg ggttggtgct 60
gttgcatggt cctgtgccat cagtatctta atgaagacta taatgtaact gcaaactcca 120
agctggtcat tatcacggct ggggcacgtc agcaagaggg agaaagccgt cttaatttgg 180
tcacgcgtaa cgtgaacatc ttt 203

```

```

<210> 1709
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1
<223> n = A,T,C or G

```

```

<400> 1709
ngttgaaaaa atagatccaa tcagtttata ccctagttag tgttttgcct cacctaatag 60
gctgggagac tgaagactca gcccggttgg ggctgcagaa aaatgattgg cccagtcctc 120
cttgtttgtc ctttctacag gcatgaggaa tctgggaggg cctgagacag ggattgtgct 180
tcattccaat ctattgcttc accatggcct tatgaggcag gtgagagatg tttgaatttt 240
tctcttcctt ttagtattct tagttcttca g 271

```

```

<210> 1710
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 58
<223> n = A,T,C or G

```

```

<400> 1710
tacaaaatat tttaattgta agtggtcaga ggaattcttc tggtttctcc cttatggnta 60
tttttaattt gtacaatagt tgcttctgtc aactcagcga caatgccatc atagctttca 120
aatgagatca ccctgtagat cgatggacta tgccttaag ttgcagatgc ataaaggaga 180

```

```
<210> 1711
<211> 122
<212> DNA
<213> Homo sapiens
```

```
<210> 1712
<211> 169
<212> DNA
<213> Homo sapiens
```

```
<210> 1713
<211> 392
<212> DNA
<213> Homo sapiens
```

```
<210> 1714
<211> 301
<212> DNA
<213> Homo sapiens
```

```
<210> 1715
<211> 194
<212> DNA
<213> Homo sapiens
```

```

<400> 1715
taaattcagg ctaacttctg aaaatcccgt tttattcacc tcaactgtgt accagtaact 60
atactgagtc aggttacttt acagttaact atgtcaccta aaacacaata atccattaac 120
actctaataa cagttattgg gtgtggtcat actggaaatt ctttaaccata tagttgtctt 180
gccaatTTTT tttt 194

```

```

<210> 1716
<211> 185
<212> DNA
<213> Homo sapiens

```

```

<400> 1716
gtaggaatgg gttcttggta cacaagatag tattgttgag ctagttttct agctctgtgc 60
acaagcactc tttaattccc acggacgggg ctctccagc tacagcagcc aaagcatatt 120
caatctggac aagtttacca gacgggctga atgtagtcag cgaaaaactg taccgcgcgt 180
ccgcc 185

```

```

<210> 1717
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G

```

```

<400> 1717
aanaggctct tgggtggagag gactgtgaag ccgtcggcag gtgtgccctc gggtgtgccc 60
tcggcgctgg ctgccttact gacttcaccc tgcttcttct tggatttccg ggcccccttc 120
ttgcctcctg cttttttaga tgcaggcttc ttctgggatg gagacttggc ctttttggct 180
ggggggtggtg tgatgatggc ttccaacttt cctttggatc cccgcttctt cgctagcaac 240
tcggggtgga tggtgggtaa cacaccccca ctggctatgg tgactccttt tagcag 296

```

```

<210> 1718
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 208, 322, 341
<223> n = A,T,C or G

```

```

<400> 1718
atggcattaa ttgttccttg cttttatagg gtgtattttg tacatttttg atttctttat 60
ataaggtcat agattcttga gctgttggtg tttttagtgc acttaatat agcttgctta 120
aggcatactt ttaatcaagt agaacaaaaa ctattatcac caggatttat acatacagag 180
attgtagtat ttagtatatg aaatatntg aatacacatc tctgtcagtg tgaaaattca 240
gcggcagtggt gtccatcata ttaaaaaatat acaagctaca gttgtccaga tcaactgaatt 300
ggaacttttc tctgtcatgt gnatatatgt caaattgtca ngc 343

```

```

<210> 1719
<211> 193

```



|            |            |            |            |            |             |     |  |  |
|------------|------------|------------|------------|------------|-------------|-----|--|--|
| <400>      | 1722       |            |            |            |             |     |  |  |
| ttatgaagtt | gacaaataaa | taaaaggtag | tggntatgtc | tgagottatt | gtgtttgagc  | 60  |  |  |
| taacaccagg | ttactcagta | accatgacct | gctcctccat | ttccatttat | ttcacaacatt | 120 |  |  |
| aaatagtttt | atcttggtgn | tgccagaaat | gcacttgtgc | caggnattgn | ccctgctgta  | 180 |  |  |
| tqaaaagcct | cttggcaatg | aattctgtaa | taagtgcctt | acattatggn | tttctggtgg  | 240 |  |  |

aattggttta acagngacaa cccaggattt ccaatatatt tttgt

285

<210> 1723

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 33, 66, 67, 68, 406, 437, 450, 462, 498, 515, 516

<223> n = A,T,C or G

<400> 1723

```

cttggttgcc aggtggcacc ttctcactat gtntccacat ggccttttct ctgtggagag 60
ggacannnag catgagcagg ctctggtgtc tcctcttctt ataaagacac taatatcacc 120
atattagggc ttaaaccctat gacctcattt aaccttaacc ccttaaaggc cccatctcca 180
aaaacagtca catagcaggc tactgcttca acatatgcat ttgggggagg ggacaccatt 240
cagttcttaa cagggtgggc accgcaaaca tggaaagtca gagccttctc cccttcagaa 300
ttcccgcccc caccagggga tggggaagag gagcagagag gtatgggaag cagacacgga 360
gagtggcagg taccatgctg ggggtgggctc aggagtgtt tcgganggac atatggaact 420
ggcagggctc aatgcangga gggcggaagn ccttggaag ancccgtagc ctgagaaagg 480
ggctgggcta caaccctngg caagttactt taccnntgac cttcgatgct tttggg 536

```

<210> 1724

<211> 145

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 4, 12, 27, 32, 45, 47, 48, 59, 61, 65, 93, 98, 103, 121

<223> n = A,T,C or G

<400> 1724

```

ctgncctttt gnaacaggac cctcacncta tncaatgggg ggttnanntg aagcatganc 60
ntatncatgc ggaaaaccca actcatgtga gcncaaancg ganggaccca gacaacctg 120
natgcggcta atatggggag agaaa 145

```

<210> 1725

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1725

```

caattctgga attaccact tgtttaattt tgagcaacat gatctagcat taatgtagtc 60
acattctaaa tcagacaatg taattatgaa gtagaccgag aggaagatga gcgcgcaaca 120
atcgaggaga gagaagacga acaccaccgc ctccatcctc ctctccgctc gcc 173

```

<210> 1726

<211> 302

<212> DNA

<213> Homo sapiens

<400> 1726

1723-1726

```
<210> 1727
<211> 274
<212> DNA
<213> Homo sapiens
```

|             |            |            |            |            |            |     |  |
|-------------|------------|------------|------------|------------|------------|-----|--|
| <400>       | 1727       |            |            |            |            |     |  |
| ttnnngttgaa | aaaatagatc | caatcagttt | ataccctagt | tagtgttttg | cctcacctaa | 60  |  |
| taggctggga  | gactgaagac | tcagcccggg | tggggctgca | gaaaaatgat | tggccccagt | 120 |  |
| ccccttgttt  | gtcccttcta | caggcatgag | gaatctggga | ggccctgaga | cagggattgt | 180 |  |
| gcttcattcc  | aatctattgc | ttcaccatgg | ccttatgagg | caggtgagag | atgtttgaat | 240 |  |
| ttttctcttc  | cttttaqtat | tcttaqttct | tcag       |            |            | 274 |  |

```
<210> 1728
<211> 415
<212> DNA
<213> Homo sapiens
```

|             |             |            |            |            |             |     |  |
|-------------|-------------|------------|------------|------------|-------------|-----|--|
| <400>       | 1728        |            |            |            |             |     |  |
| aaatcccttt  | ctgcttccac  | tggaggcaaa | actgaacaaa | atgttagtta | aatagagaga  | 60  |  |
| gcagcatttc  | taagaaatct  | gtggtcagca | ttatagacca | tctatgctac | aaggatgtca  | 120 |  |
| ttaaatagga  | tttgttcaat  | tactggattc | ttcttctatg | atcagttata | gaattttctgg | 180 |  |
| tttataatctc | tgattcataa  | aactgggact | ccactttttg | aagatacatc | tgattgattt  | 240 |  |
| ttttcagtc   | tgattttaaca | gacttctttg | agatgctcat | tttaacattt | acataattta  | 300 |  |
| taattcccaaa | tgtataaaaag | acaatgaaaa | aagcatcata | aataaataat | gcaaaatgaa  | 360 |  |
| ataqtttatgt | cagacttttg  | gaccttctga | taaattagca | aaactgtaac | agaaa       | 415 |  |

```
<210> 1729
<211> 309
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 4
<223> n = A,T,C or G
```

|             |            |            |            |             |            |     |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 1729  |            |            |            |             |            |     |
| acanaccgta  | tactttatgc | aaacaaagtg | atgcctcact | gacttaggag  | acaagtcaca | 60  |
| tgccatcagt  | gtgtcagaaa | atttctttct | tcagtgatag | ttaaggtaac  | ctcgccagct | 120 |
| actttccaga  | gacagctcca | gggcaatact | ggggaaaaaa | aatcacagaga | cataggaccc | 180 |
| caatagagcc  | ctgtgcaaca | aaaagatgct | agataacaaa | actcaaagca  | aaactaagat | 240 |
| ctattccaatt | taggggaaag | tttttttatt | cagtgtttaa | gattaaaaac  | tacaagattt | 300 |

tgcttgacg

309

&lt;210&gt; 1730

&lt;211&gt; 285

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 2

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1730

```

ancgtgactg tatttatggt gctattgggtc aaaagagatc cactgttgcc cagttggtga 60
agagacttac agatgcagat gccatgaagt acaccattgt ggtgtcggct acggcctcgg 120
atgctgcccc acttcagtac ctggctcctt actctggctg ctccatggga gagtatttta 180
gagacaatgg caaacatgct ttgatcatct atgacgactt atccaaacag gctgttgctt 240
accgtcagat gtctctgttg ctccgccgac cccctggctg tgagg                    285

```

&lt;210&gt; 1731

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1731

```

cattaccttg ctaaaatttc cactaagcta cagcttcaga tatttacaag aaaaataaat 60
atcttttaac agacttcaat gtgggtttaac agcaagctag ctgaggagtt gtattttggt 120
gttatttcag gtaacttttt attaagaaac agttaatatt tcagcgatta caatttcagg 180
tgttcaaaac tcaagaaggg tcatcattat actctgaagc agaattcttc aggtactcat 240
cttt                                         244

```

&lt;210&gt; 1732

&lt;211&gt; 272

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; 9, 65, 192, 210, 212

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 1732

```

ctgggaagnc agttcgttct ctctctcct ctcttcttgt ttgaacatgg tgcggactaa 60
agcanacagt gttccaggca cttacagaaa agtggtggct gctcgagccc ccagaaagg 120
gcttggttct tccacctctg ccactaattc gacatcagtt tcatcgagg aaagctgaaa 180
ataaatatgc angagggaac cccgtttgcn tncgccaac tcccaagtgg caaaaaggaa 240
ttggagaatt ctttatgttg tcccctaaag at                                         272

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&lt;210&gt; 1733

&lt;211&gt; 388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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<221> misc\_feature  
 <222> 2  
 <223> n = A,T,C or G

<400> 1733  
 anttggaga gcatatgaac acgggccagc tagcaggatt ttcacatcaa attagaagtc 60  
 tgattttgaa taatatcatc aataagaagg agtttgggat tttggcaaag accaaatact 120  
 ttcaaatgtt gaagatgcat gcgatgaata ccaacaatat cactgagcta gtgaactatt 180  
 tggcaaata cttaagttta gatgaagctt cagtcttgat aactgaatat tcaaagcact 240  
 gcgggaaacc tgtgcctcca gacactgctc cctgtgaaat tctgaagatg tttcttagtg 300  
 gattatcgta aatcactgaa cctttttttc aagaaggaca agaatttttg agtctgctat 360  
 taatgggacc atatttatta cagttttt 388

<210> 1734  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 1734  
 tttggaatgt aaaattaatg gtatctggta tcaagttgta agaaaaactc ccccagattg 60  
 ggaggtaact gagtgatatg tgaaagaatc ttcccgtctg aatttaagaa tacacctaca 120  
 ctgggcagaa aaagggtggg gagaggaagt agaagtagag gaaaagcaca actccactgg 180  
 cttcaatcaa actgaggtaa ctaattagag acggaaaata aataaatcaa caaatgcccc 240  
 atttttgttt tccaaaaaag atcactggca actaacaatt tt 282

<210> 1735  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 1  
 <223> n = A,T,C or G

<400> 1735  
 ntaagccagc cttcctcaag aatgccagac agtggacaga gaagcatgca agacagaaac 60  
 aaaaggctga tgaggaagag atgcttgata atctaccaga ggctggtgac tccagagtac 120  
 acaactcaac acagaaaagg aaggccagtc agctagtagg catagaaaag aaatttcac 180  
 ctgatgttta ggggacttgt cctggttcat cttagttaat gtgttctttg ccaagggtgat 240  
 ctaagttgcc taccttgaat tttttttt 268

<210> 1736  
 <211> 478  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2  
 <223> n = A,T,C or G

<400> 1736  
 tnatagactt ttccaatggc ccccttataa caccagaaag gattgtaatc ttgggcgtat 60

```

tttgtgctgg catctttggc agttgtgaag atcttgtacc agagcgtggc gttgctgtac 120
gtgtcaggaa cacagtgcgg tggctgtaca gtgacgggga acaccccagg gctggccgtg 180
agggcatgc aggctgtgaa taccacctgc tcacagtgc cgtggagggc gcagtcactt 240
gagctccacg ctgtaggcag ggtgaagggt atgtttatct cctcgtgggc ttccctgcct 300
gaaagtccaa tctgatgccc taagatggtt gagtacagat gggtagcgtt gggggaatac 360
cctccgaagg gtttcagtgg gtccagggtt aggggtgatt agactgagat attcacggg 420
cccagagtcct ccagggcctg gggggactgg gtggaagctc gggcctgccc gctggtca 478

```

<210> 1737

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 5

<223> n = A,T,C or G

<400> 1737

```

cttttaggat ggcgagtagc agcggctcca aggctgaatt cattgtcggg gggaaatata 60
aactggtacg gaagatcggg tctggctcct tcggggacat ctatttggcg atcaacatca 120
ccaacggcga ggaagtggca gtgaagctag aatctcagaa ggccaggcat cccagattgc 180
tgtacgagag caagctctat aagattcttc aagggtgggt tggcatcccc cacatacggg 240
ggtatggtca ggaaaaagac tacaatgtac tagtcattgga tcttctggga cctagcctcg 300
aagacctctt caatttctgt tcaagaagg tacaatgaa aactgtactt atgttagctg 360
accagatgat cagtagaatt gaatatgtgc atacaaagaa ttttatacac agagacatta 420
aaccagataa cttcctaatt ggtattgggc gtcactgtaa taagttattc cttattgatt 480
ttggtttgg

```

<210> 1738

<211> 262

<212> DNA

<213> Homo sapiens

<400> 1738

```

gttacagatg acatgtatgc agaacagacg gaaaatccag agaatccatt gagatgtccc 60
atcaagctct atgatttcta cctcttcaaa tgccccaga gtgtgaaagg ccggaatgac 120
accttttacc tgacacctga gccagtgggt gcccacaaca gccaatctg gtactcagtc 180
cagcctatca gcagagagca gatgggacaa atgctgacac ggatcctggt gataagagaa 240
attcaggagg ccatcgagtg gg

```

<210> 1739

<211> 422

<212> DNA

<213> Homo sapiens

<400> 1739

```

ccaccatcct tttgagacag ttcctatcaa caatottgaa ccataactaat acattacttg 60
ttcctgaagt ccttttgttg tagctcataa taaaataagc aatacaaatg aattatctgt 120
atttaaggga aaagaaacat ttacaagaaa acacaaaaat ataactgta taattcatta 180
tgaataaata tacactttga actggctaag tacaatcttt atacattggt taagatttaa 240
tacagtttat tagccatttt cttttttcac acaatgtata tcaaaattaa aaaaaatac 300
tgatttatag aaaaatggca aagtacagta gttccattcc aatttgaagg gccatgaaaa 360
gccactgcaa gaccttttag cctaattcaa acctgtaaac atgttcagtc ttttttacct 420

```

422

```
<400> 1740
gctaaatacc tatctaattgt gctatgttta tcaaactcgtg tactaaaaatg gaaagctagt 60
tttgagaaat tattcagaag ccttggttatt tt 92
```

```
<400> 1741
tttcaattct tccaaaaggc tcaaagatcc cacgaagcat atcttcagtt atgttgaagt 60
gtaatgagcc cacataaagc ctcataggtc cagcacttcc cttttgtaaa ttgtttgcca 120
ttgtgcgacg tctgtttttt tctgcctgtg atgcctgtac tatgattggc acgcctaaaa 180
ctcgttqg                                     188
```

```
<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G
```

|             |            |             |            |             |            |     |  |
|-------------|------------|-------------|------------|-------------|------------|-----|--|
| <400>       | 1742       |             |            |             |            |     |  |
| ttnaaaatac  | tttcaggctc | cacccaaaacg | tagaactgaa | agcatgtatt  | ttggaagaaa | 60  |  |
| gagatacatt  | ttgtatgctt | tcttttcctt  | ttgtagattc | ccagttttatt | ttctaagact | 120 |  |
| gcaaagatca  | ctttgtcacc | agccctggga  | cctgagacca | aggggggtgc  | tttgtggcag | 180 |  |
| tgaggggggtg | aggagaggct | ggcatgaggt  | ctagtcattc | cagtgaagtc  | caaagagggg | 240 |  |
| ccacctgttc  | tcaaaagcat | gttggggacc  | aggaggtaaa | actgg       |            | 285 |  |

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<210> 1743
<211> 117
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> 2  
<223> n = A,T,C or G
```

```
<400> 1743
angatctata gacactttag gcaaaacagg ctcataaagc aattaaaaaa tcaacaattt 60
agtaaaaaa ggctacatag tattttgttt ttacgtttca tttgtctatt gatcttt 117
```

<210> 1744

<211> 111  
 <212> DNA  
 <213> Homo sapiens

<400> 1744  
 aaacaatggg ctaaaaataa acagtattaa aagggttaagt ttatataata catatgtaca 60  
 caattagtgg tgttttcttt tcagacaaaa tactgaaaca aatattagtt t 111

<210> 1745  
 <211> 305  
 <212> DNA  
 <213> Homo sapiens

<400> 1745  
 ctgccagtag acccccggtc accctgaggc tgggtgggtccc tgctagtcag tgtgggtctc 60  
 tcattggaaa aggtggatgc aagatcaagg aaatacgaga gagtacagg gctcagggtcc 120  
 aggtggcagg ggatatgcta cccaactcaa ctgagcgggc catcactatt gctggcattc 180  
 cacaatccat cattgagtggt gtcaaacaga tctgcgtgggt catgttggag tccccccga 240  
 agggcgcgac catcccgtag cggcccaagc cgtccagctc tccgggtcatc tttgcagggtg 300  
 gtcag 305

<210> 1746  
 <211> 319  
 <212> DNA  
 <213> Homo sapiens

<400> 1746  
 aaaataagtg aataagcgat atttattatc tgcaagggttt ttttgtgtgt gtttttgttt 60  
 ttattttcaa tatgcaagtt aggtttaatt tttttatcta atgatcatca tgaaatgaat 120  
 aagagggtctt aagaatttgt ccatttgcac tcggaaaaga atgaccagca aaagggtttac 180  
 taatacctct ccctttgggg atttaaatgtc tgggtgctgcc gcctgagttt caagaattaa 240  
 agctgcaaga ggactccagg agcaaaagaa acacaatata gaggggttga gttgttagca 300  
 atttcattca aaatgccaa 319

<210> 1747  
 <211> 177  
 <212> DNA  
 <213> Homo sapiens

<400> 1747  
 aaatcctttt ccataaata aaagtacagt tttcttggtg gcagaatgaa aatcagcaac 60  
 ttctagcata tagactatat aatcagattg acagcatata gaatatatta tcagacaaga 120  
 tgaggaggta caaaagttac tattgctcat aatgacttac aggctaaaat tagtttt 177

<210> 1748  
 <211> 237  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 9, 12, 15, 25, 172, 225  
 <223> n = A,T,C or G



<400> 1748  
 ctgaaggant gnaantagac tggtnagagag aggaaggcac tgagccacat gaaggtatgt 60  
 acgtaggttt tgttcagtgg aaatagactg gtagagagag gaaggcactg aaccacatga 120  
 aggtatgtgt gtaggttttg ttcagtggaa atagactggt agagagagga angcattgaa 180  
 tcacatgaag gtacgtgtgt aggttttgtt cactgacttc ttcantgtct cagccag 237

<210> 1749  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 87  
 <223> n = A,T,C or G

<400> 1749  
 aaaaggcccc attatctgac aaaatagatg gtgaacatgc actatcccag gatatctatt 60  
 attatccaaa gaagtgtttc tcaaagngtg gtccatggta ctggtccatg aattgggtgc 120  
 taccagtcaa tgaagagata aattacttgc atcagagtgt aaatcaatac attgctttag 180  
 ctattaataa aatttttgcta aaaaatcaaa tcctgtcatt gacctaaaaa gtatctctag 240  
 attt 244

<210> 1750  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 247  
 <223> n = A,T,C or G

<400> 1750  
 aggccagcct ccaccacgca cggcgaaagg agtgaactag ctgggacaca cacacgtgtg 60  
 aatgcatgca agcattcact gcattctctc cgtggactcc ctaccgctct tccatagccc 120  
 cccctttcag cctcactgtt tctcgtgtga gcctatctgc ttgggcagtc cactcgggag 180  
 ggggtcatgg agccaggact ccctctaaat aggaatggaa aggaccctgc agatattttt 240  
 atcctanttg tgaaaacaag gtgcctctga ttctctatat ccatcacag 289

<210> 1751  
 <211> 594  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 558  
 <223> n = A,T,C or G

<400> 1751  
 ctggttatta atcacaagtc ctggaaatgg tctaatagacc gtgaatttga taaactcggc 60  
 agagtctaag atccttctca tggagctgat ttccaggtag ctgggggctt tgaaggacac 120  
 ccccgggggc atgccatcaa ccaccacaca gccagggtta attgtgattt tcctgtaggg 180

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aactttcaca ggaaaaccca taccaatagc ttcaccaa ttcgcgactaa agaggtcatt 240
cacttggttct cttagctgtc tagctttttc aactttcgag agtctttcat tatcatcatc 300
tggaattgtc acctgaatga tgtaaggtc ttcaacacct gatgcagtag tattaacatt 360
gggtgatgaa tttatttttc tgggagggct cttagaggag gtgctctcct taatcgccgt 420
ctcaaacatt tcgggctttt taatgatgaa cttaattttg gctttgtttc tgagtatctt 480
ctccagcctc ggaatgcaa aagtcgatgg tcttcggaat ggcacaccct caggtaagcc 540
ttccacataa aagtcttncg ggaaagactc aaataacgcg aacggcacct tcac 594

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<210> 1752

<211> 311

<212> DNA

<213> Homo sapiens

<400> 1752

```

ctgaagggtt catggctccc aaggcttggg ccgtgctgac agaatactac aaatccttgg 60
agaaagctta ggctgttaac ccagtcactc cacctttgac acattactag taacaagagg 120
ggaccacata gtctctgttg gcattttctt gtggtgtctg tctggacatg cttcctaaaa 180
acagaccatt ttctttaact tgcattcagtt ttggtctgcc ttatgagttc tgttttgaac 240
aagtgttaac cactgatggg tttaatgtat cttttccact tattatagtt atattcctac 300
aatacaattt t 311

```

<210> 1753

<211> 587

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 552, 561

<223> n = A,T,C or G

<400> 1753

```

ctgtccatta tacacggtca cgttgatccc tgctccagc aactcgtcca caatgctaata 60
gactggcttc atgaagtcc cctccatggt cacaagagc ttggtagcct ggccctccca 120
ggattgatcc tcaggaataa ttttgagctt ctttctgatg gggccattca tgagctggct 180
taaggcatct cgttgtagggt gtctcacgtg gcgctgacaa agacaaacta ggtggctctg 240
tgtgaattct agactcgact ccattgtaga cgtgggagtg cttttagtta agatgttata 300
gaagttcacc ccatctgtgt tctgttcaat gatcatttct gctttccccc acagctctgt 360
ggcctctctg tagagccctt tatttacggc attcagtagt tgctctgcaa ccttagacac 420
ctctgccaga cttttgtctt cgagaagaga catgctgtac aggtaaggct cccaggagag 480
caccgaatca acaggggaga tccaggaatc acccaaggca acccccgcaa agttgcactt 540
gatggctcct cnotgaatgg ncttataaag ctctagacca atgccag 587

```

<210> 1754

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 409

<223> n = A,T,C or G

<400> 1754

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```

cctctctcct tggcttgca gttggcacctt ctactatgt cctcacatgg ccttttctct 60
gtggagaggg acagagagca tgagcaggct ctggtgtctc ctcttcttat aaagacacta 120
atatcaccat attagggctt aaacctatga cctcatTTaa ccttaacccc ttaaagggtcc 180
catctccaaa aacagtcaca tagcaggcta ctgcttcaac atatgcattt gggggagggg 240
acaccattca gttcttaaca ggggtgtcac cgcaaocatg gaaagtcaga gccttctccc 300
cttcagaatt cccgccccca cccagggatg ggggaagagga gcagagaggt atgggaagca 360
gacacggaga gtggcaggta ccatgctggg gtggctcagg agtgcttong aggacatatg 420
gaactggcag ggctcagtgc agggaggcgg aggccctggg agagccgtgt cctgagaagg 480
gcctgggcta caaccctggg caagttactt cacctctgag cctccgatgc tctgtgaaat 540
ggaaggaatg tgcttgccctg tcag 564

```

<210> 1755

<211> 214

<212> DNA

<213> Homo sapiens

<400> 1755

```

aaatgtgatg ttttgagcat caaaaagcta ctatctaaaa ggattagtct cccagtgttc 60
ttggtaaattg gggaagggtta ggaaggaggc aatgatccaa tgaatataga agaactggcc 120
gattcacagg aaacttgctt tggataaggt gagtcaatgg gtgatattgt gcaggcaggg 180
agggaaattt ctttgtacaa attcatgtcc ctgg 214

```

<210> 1756

<211> 225

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 8, 9, 40, 41, 76, 88, 89, 91, 100, 143, 181, 188, 197, 201, 202, 217

<223> n = A,T,C or G

<400> 1756

```

aaaattanna catacatggt caggcagctt ctgtccatan ntaaaactatt ccttttcagt 60
ctgagtaata tgcggnTTgt tcttaatnnc ncacattaan aattttattta gattgggtgaa 120
actatcttta taaaaaaaaa atncgaacat gaatgcaaac ttaccaaaca gagcccacta 180
nattgatnaa gttaatncca nnatagtttg ccatganctg ggtgg 225

```

<210> 1757

<211> 282

<212> DNA

<213> Homo sapiens

<400> 1757

```

ttgcagcctg cgatgacaca gcgaatctat gacaagtTTa tagctcagtt gcagacatct 60
atccgggagg aaatctctga catcaaagag gaggggaacc tagaagctgt cttgaatgcc 120
ttggataaaa ttgtggaaga aggcaaagtc cgcaaagagc cagcctggcg cccagcggg 180
atcccagaga aggatctgca cagtgttatg gcaccctact tcctgcagca acgggacacc 240
ctgcggcgcc atgtgcagaa acaggaggcc gagaaccagc ag 282

```

<210> 1758

<211> 473

<212> DNA

<213> Homo sapiens

<400> 1758

```
ctgaaacagc ttttcaagct ctctctcctc gtcaaggatc atgagaggca ctccactcaa 60
ggggagggtgc gcaatctggt gctcttcagg cagggtcaaaa ctctcaaagt ctagaggatt 120
gaagggaaaag aatttttcta tttctggata ggcacatctt gaggcaggaa cagagctttt 180
tgctttaaca gtcttctcag tcatcttttt ggcagaaaag ctgggctggt tttgtttgag 240
gggtcccttg gtctttacag acttttctgt agctctgttg acagttccca aagcctttct 300
agtagcttta ggtaaggctg gtggggcatc gaacgttttg ccaaaacgtg gtgttgaaac 360
ttgagatctc ccatctaagg ctttgattga aggtccagac ccagcttca gcccatcctt 420
agcaaccaca cgggtgcctg gttctccatt ttccttatcg acatagatca gag 473
```

<210> 1759

<211> 187

<212> DNA

<213> Homo sapiens

<400> 1759

```
aaacttcgcc atgatcgtgt cttctgcact catgatatgg aaaggcttga tcgtgctcac 60
aggcagttag agcccatcgc tgggtggtgct gagggtcagt atggagccgg cctttcacag 120
aggagacctc ctgttctcga caaatctccg ggaagaccca atcagagctg gtgaaatag 180
tgttttt 187
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<210> 1760

<211> 564

<212> DNA

<213> Homo sapiens

<400> 1760

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cctctctcct tggtttgcag gtggcacctt ctactatgt cctcacacgg ccttttctct 60
gtggagaggg acagagagca tgagcaggct ctggtgtctc ctcttcttat aaagacacta 120
atatcaccat attagggctt aaacctatga cctcatttaa ccttaacccc ttaaagggtc 180
catctccaaa aacagtcaca tagcaggcta ctgcttcaac atatgcattt gggggagggg 240
acaccattca gttcttaaca ggggtgtcac cgcaaactg gaaagtcaga gccttctccc 300
cttcagaatt cccgccccca cccagggatg gggaagagga gcagagaggt atgggaagca 360
gacacggaga gtggcaggta ccatgctggg gtggctcagg agtgcttcgg aggacatatg 420
gaactggcag ggctcagtc agggaggcgg aggccttggg agagccgtgt cctgagaagg 480
gcctgggcta caaccctggg caagttactt cacctctgag cctccgatgc tctgtgaaat 540
ggaaggaatg tgcttgccctg tcag 564
```

<210> 1761

<211> 413

<212> DNA

<213> Homo sapiens

<400> 1761

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cagcagcatc ttttagttgt tgaattccaa gtttaatttt ttggatttct tgattaattg 180
tggttactcg ttcatagaca gcacctcttt tttcttgaac tttattgcaa tcctcaatta 240
ctgtgcgttt gtattgctta acatcttcat gcttcttatt tattttgaat tgtgctgtgg 300
caagtttttc cttcttcaca atcatcagtc ttttgaacga attttcttca gtcttcaatt 360
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1001754-10901

<210> 1762  
 <211> 315  
 <212> DNA  
 <213> Homo sapiens

<400> 1762  
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 ctttccctgg tgatgggtccc ctgcccgtgc tttccagcat ccaactctccc ttgtcctcct 180  
 gggggcatat ctcaagtcagg cagcggcttc ctgatgatgg tcgttggggg ggttggtcatg 240  
 tgatgggtcc cctccagggt actaaagggt gcatgtcccc tgcttgaaca ctgaagggca 300  
 ggtggtgggc catgg 315

<210> 1763  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16  
 <223> n = A,T,C or G

<400> 1763  
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 gctcggcagt cgcgaagcag caaccatgcg tgagtgcac tccatccacg ttgg 114

<210> 1764  
 <211> 114  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 25, 33, 38, 53, 62, 71, 81, 83, 93, 102  
 <223> n = A,T,C or G

<400> 1764  
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 tngacatgaa naccctacag ntnccactgt ggnaattgaa antatccctc atgt 114

<210> 1765  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<400> 1765  
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 aggtctgtgt aaggcagaca agcgttattg atcatatcaa gttccctaca atatcctgtc 180  
 ctcaaaaaccg gaagcaatga acatgatcct cttcggttgg ataaatgaac ttctgtttg 240  
 gcctgcttct aggccctgcc agatttctcat aacatcatat acgtaagtat agttcctcaa 300  
 agtgactgac atttatttta attttgcttt gttttttttt attttctccc ccattccttt 360  
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atttaatatc cagggctgtg ttacagtaa aaaaagcagg cagtccttt tagtttttcc 480  
 ttttt 485

<210> 1766  
 <211> 389  
 <212> DNA  
 <213> Homo sapiens

<400> 1766  
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 attttgcagg ttaaaaagat gttgcttaaa tatattcata aacctgttgt aagattttca 180  
 cttatgcagt ttcagaaaat ttagctgctt aacatatgac agaactgtat ttaacaaat 240  
 gacattaaaa gtcaggagag ctactcagtt aattgataaa gtagaggcaa cgtgggggag 300  
 ccctccccac gtttattgaa gatttgtggc tccccagcc ccgtttgcct gcatcaggct 360  
 aacaacctca ttcctcccat agagcctgg 389

<210> 1767  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 16, 20, 21, 35, 119, 125, 133, 142, 165, 169, 176  
 <223> n = A,T,C or G

<400> 1767  
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 tgggtacaca aggctatttg ccagcgtata ttaatatatt agaaaatatt ccttttgtna 120  
 tactnaatat cancatagag cnagaatcat attatcatat ttatnatant gttcan 176

<210> 1768  
 <211> 384  
 <212> DNA  
 <213> Homo sapiens

<400> 1768  
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 ggagttcagg catggtccca cgcagagcat cagagttcct ctttgaaata acccagcttt 180  
 gccaatgaca tctcttttct caactgcata acctcccaaa acatctgac aacatcctgc 240  
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 atcctgtatc tgcaaaaagg agaaatacaa taatagttgc ttgagtcccc taatttaatt 360  
 ctgtgtttac aggacttact ctgg 384

<210> 1769  
 <211> 111  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 91

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<220>
<221> misc feature
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<222> 3, 42, 66, 68, 77, 85, 104, 140

<223> n = A,T,C or G

<400> 1773

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tccctnanac atcccnatt gaaanaacca ttagaggctc tganaaacct acggaaactt 120
agatcatcag gtcaccgaan agtcctacag ggccacaaca tgccccctgc ac 172
```

<210> 1774

<211> 525

<212> DNA

<213> Homo sapiens

<400> 1774

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atcctgagtg tcaactactct ctccctccag ggatgccctg gacctaaagt acatcaactc 180
agagcctcct cggggctcct tccccctctt tgagcctcgg aacctcctca gcctgtttga 240
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gcaacatggc ccttctgtgt ccctttattg atgtcatcca gggctctaac gcccctgagg 480
ctgagccctg ctgcagaacc cacgctcctg gccttggggc agcag 525
```

<210> 1775

<211> 458

<212> DNA

<213> Homo sapiens

<400> 1775

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atgtagtctt cttttgacga gaacgttgag attttcgaac tttcagaact ttcttttttt 180
gatgtttttt cccattcttt tgctttttct tttggctgac ctgtttctcc cactttttta 240
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aggattgtag gtggatagtc ccttggttgg tgctgatgca ggaacagcga ccctttctca 420
ctactggggt tccttgcaact ccaatcagaa ccagcaag 458
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<210> 1776

<211> 461

<212> DNA

<213> Homo sapiens

<400> 1776

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aaagtttcac ttccctagca aaatatcttc agtcaagaaa ttagtctttg aaaattatga 60
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attgtttcta gaagcaataa aatataacct atttaggaga taacccaaat gatttgtaaa 180
aaaattaact tgtagaaaag ggaaggatgt tgtgtaaaaa caagtcaatt atttgaggtt 240
tttataatat tgagtactta tgtactaagt cacaccacgc cagtcaataa ctgagaaatc 300
aaaataaaat aataatttca aagaattaca taaatacagg gcctttttgag atttttggca 360
attgtaaaaca aaaacgaatg gtttttataa ttcagtgtaa ttctacgaat atttatttgg 420
cacccatgtt aggactgag gctacacagc agtgaaatag g 461
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<210> 1777  
 <211> 368  
 <212> DNA  
 <213> Homo sapiens

<400> 1777  
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 cttccgagtc ccagggttttc acttgaggct gtctgtcttg atggcggttt tcagacctcc 180  
 attaacatcc ctaccagca ttctgtactt cgggggcctt ctctcttggt ataaaacttt 240  
 ttaccaagtg aaacatcgat accacctttg tttccattct cactggtgta aatactgagt 300  
 actaactgag aattttgact ttgcattctg tcggaatact tgtgttcaat aaaaattgaa 360  
 agaaaaaa

<210> 1778  
 <211> 554  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 211, 416, 499, 518  
 <223> n = A,T,C or G

<400> 1778  
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 cttagtttgt tgcctaagag tacaccaaat gtgacatcct ttcaccaata tagattactt 180  
 cataccacat tgtcaaggaa aggactagaa naattttttg atgacccaaa aaactggggg 240  
 caagaaaaag taaaatctgg agcagcatgg acctgtcagc aactaaggaa caaaagtaat 300  
 gaagatttac acaaactttg gtatgtctta ctgaaagaaa gaaacatgct tctaacccta 360  
 gagcaggagg ccaagcggca gagattgcca atgccaaagc cagagcgggt agatanggta 420  
 gtgatttcca tggatgcatt agataaagtg gtccagggaa agagaagatg ccctaaggct 480  
 tcttcagact ggtcaagana gagctagacc tgggtgctntg gagaaagaag acatcttttg 540  
 aaagaatcat ctgg 554

<210> 1779  
 <211> 379  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 42, 378  
 <223> n = A,T,C or G

<400> 1779  
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 gatgccatgg agactggaag accattccaa cttggacgag ttaccatgag agcatatcct 180  
 atccaaccgt actaacgtgg acaccctaca cctccctca gaacttcaaa agggcaagat 240  
 cttttttcct tcaattattg ctgagaccaa gagcacaatt ccatttgaga gaaagatctc 300  
 tgtgtgttaa actaaaacaa attgtgcatt ccttccgggg ccatcgtctt tgtcttcttt 360  
 tttgtcttga atgaattnt 379

<210> 1780  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 1780  
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 agatgttctg ccttagcact cagttgcatt cttttccttt ttcttcctgt tcattatgct 180  
 ttaattctga ggaccatatg agggtagaat atattatctt tt 222

<210> 1781  
 <211> 292  
 <212> DNA  
 <213> Homo sapiens

<400> 1781  
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 atcagcttta acatggagac gggcgtccgg gcagcggagt tcatcaagaa ttacatgaag 180  
 aaatattcat tgctgcctta cttgatttta gtattgaaac agttccttct gcagagggac 240  
 ctgaatgaag tttttacagg tggaattagc tcatacagcc taattttaat gg 292

<210> 1782  
 <211> 381  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 132  
 <223> n = A,T,C or G

<400> 1782  
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 aactgtggga ttctgatttg tattaataatt gtaagctcct cactgggtata ctatcatcct 300  
 ggaggggtgt tgtatggctg agcaagagag agagagaaat agagagagac tgtgtgtgtg 360  
 tgtgtgtgtg tgtgtgtgca c 381

<210> 1783  
 <211> 127  
 <212> DNA  
 <213> Homo sapiens

<400> 1783  
 aaatatctat gtcacagcaa acaggtggca attcaacatc cagggctcgac agaattgctt 60  
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 ggcccag 127

<210> 1784



&lt;400&gt; 1787

atgatgatta ctttcacatc gnaatccaac ctgaagagta ctttgttctc caatgttgct 60  
gtcaacattc agccatttat ccttat 86

&lt;210&gt; 1788

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1788

ccttgaaaat ccgcctgcaa gcctaccaca ctcaaaccac cccactcata gagtactaca 60  
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acagcagtggt tattgtagtg tggcagtttc ttttatacat aggtgagagt tttt 354

&lt;210&gt; 1789

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1789

taaagggctt cttgcttttt tgaatacaaa acatgatcta ttgtaataaa aaggtaagac 60  
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&lt;210&gt; 1790

&lt;211&gt; 388

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1790

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caagatctat cacagccatc ttttgagg 388

&lt;210&gt; 1791

&lt;211&gt; 2442

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1791

```

cgggagcttg aaggacacaa gaatgggagg aaaggcggac tctcaggaac ttcattcttc 60
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&lt;210&gt; 1792

&lt;211&gt; 2279

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1792

```

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<210> 1793

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 1793

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<211> 2881
<212> DNA
<213> Homo sapiens
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| ctgatgagaa  | tgagaatgag  | gttgaggatt  | cagctgactt | tgtgagcttc | ttcccagact | 600  |  |
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| cttttaacct  | gccagactc   | tgtatccgga  | aattcttccc | aaagaaaaaa | tgctttgtct | 780  |  |
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| aacgaagga   | gaggagttat  | caggaacact  | tgaacaact  | gactgagaag | atggagaacg | 1680 |  |
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<210> 1795

<211> 422

<212> DNA

<213> Homo sapiens

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<223> n = A,T,C or G

<400> 1795

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<210> 1796

<211> 797

<212> DNA

<213> Homo sapiens

<400> 1796

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<212> DNA
<213> Homo sapiens

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 <211> 1635  
 <212> DNA  
 <213> Homo sapiens

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<212> DNA
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| gcattactcc | tctccctcct | tcgttagaat | aggtatatca | gctgtgtaaa | tagagcaaga | 1860 |
| aaacagtatt | ctgcatctgt | ggcatttatg | tagagttgca | gttgtgtact | gctgaaaatg | 1920 |
| caggcttttg | taacagtgtg | atctttactg | atgcactcat | gacaagtacc | caatgtattt | 1980 |
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&lt;210&gt; 1800

&lt;211&gt; 2842

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1800

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| gttcctggtg  | gagtgaagac  | cattgaagcc | aacgggcgga  | tggttattcc  | cggaggtatt  | 360  |
| gatgtcaaca  | cgtaacctga  | gaagccctcc | caggggatga  | ctgcggctga  | tgacttcttc  | 420  |
| caagggacca  | gggcggcact  | ggtgggcggg | accacgatga  | tcattgacca  | tgttgttctc  | 480  |
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| ctactgggta | ggtcgggtac  | gcggcatatg  | tggggatagt  | ttggtagcca  | ggtatttgag  | 180  |
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| ttagcccac  | ttttacattt  | cttgccacaa  | aatctcgaag  | agctgccatt  | tcagggttcgg | 420  |
| acagtgaata | cacatgtcca  | ctgggaatac  | tgtgtgctcc  | aggtatcatt  | tctatgtgag  | 480  |
| ggtcaaccag | gcggtgatct  | gggtagacgt  | gctcatctac  | tggagtgtac  | acattctgga  | 540  |
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<212> DNA

<213> Homo sapiens

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| ccacctcttt  | cacatggatg  | cttgttggt   | cctgtcaatt  | tagcattttg  | aatcatttca  | 16140 |
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<210> 1805  
 <211> 791  
 <212> DNA  
 <213> Homo sapiens

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<400> 1805
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gttgaggcca ggcagcctcc atgcagcacc attcagggtc gccctggaga gcagcccagc 180
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ggacagcccc agatctaagc ggtgcggtaa tctgagtact tgcattgctg gcacatacac 360
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taacttgatg catgtggttt ggttcctctc tgggtggtct ttgggctggt attggtggct 600
ttccttggtg cagaggatgt ctcaaacttc agatgggagg aaagagagca ggactcacag 660
gttggaagag aatcacctgg gaaaatacca gaaaatgagg gccgctttga gtcccccaga 720
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<210> 1806  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 1806  
 Met Val Ile Ala Leu Leu Gly Val Trp Thr Ser Val Ala Val Val Trp

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50      55      60
Glu Ala Glu Pro His Thr Glu Pro Glu Glu Gln Val Pro Val Glu Ala
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Glu Pro Gln Asn Ile Glu Asp Glu Ala Lys Glu Gln Ile Gln Ser Leu
85      90      95
Leu His Glu Met Val His Ala Glu His Val Glu Gly Glu Asp Leu Gln
100      105      110
Gln Glu Asp Gly Pro Thr Gly Glu Pro Gln Gln Glu Asp Asp Glu Phe
115      120      125
Leu Met Ala Thr Asp Val Asp Asp Arg Phe Glu Thr Leu Glu Leu Glu
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Val Ser His Glu Glu Thr Glu His Ser Tyr His Val Glu Glu Thr Val
145      150      155      160
Ser Gln Asp Cys Asn Gln Asp Met Glu Glu Met Met Ser Glu Gln Glu
165      170      175
Asn Pro Asp Ser Ser Glu Pro Val Val Glu Asp Glu Arg Leu His His
180      185      190
Asp Thr Asp Asp Val Thr Tyr Gln Val Tyr Glu Glu Gln Ala Val Tyr
195      200      205
Glu Pro Leu Glu Asn Glu Gly Ile Glu Ile Thr Glu Val Thr Val Pro
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<210> 1807  
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 <213> Homo sapiens

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Ala Asn Val Leu Leu Ser Phe Gln Met Thr Ser Asp Glu Leu Pro Lys
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Glu Asn Trp Leu Lys Met Leu Cys Arg His Val Ala Asn Thr Ile Cys
50      55      60
Lys Ala Asp Ala Glu Asn Leu Ile Tyr Thr Ala Asp Pro Glu Ser Phe
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Glu Val Asn Thr Lys Asp Met Asp Ser Thr Leu Ser Arg Ala Ser Arg
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100      105      110
Lys Thr Pro Lys Arg Ala Leu Arg Arg Ala Leu Met Thr Ser His Gly

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 Lys Asn  
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<210> 1808  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

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 Ala Ile Thr Ala Ile Ser Ser Ser Phe Thr Gly Asp Cys Pro Leu Ile  
 35 40 45  
 Ala Asn Val Glu  
 50

<210> 1809  
 <211> 592  
 <212> PRT  
 <213> Homo sapiens

<400> 1809  
 Met Ala Ser Glu Ile His Met Thr Gly Pro Met Cys Leu Ile Glu Asn  
 1 5 10 15  
 Thr Asn Gly Arg Leu Met Ala Asn Pro Glu Ala Leu Lys Ile Leu Ser  
 20 25 30  
 Ala Ile Thr Gln Pro Met Val Val Val Ala Ile Val Gly Leu Tyr Arg  
 35 40 45  
 Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys Lys Gly  
 50 55 60  
 Phe Ser Leu Gly Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Met  
 65 70 75 80  
 Trp Cys Val Pro His Pro Lys Lys Pro Gly His Ile Leu Val Leu Leu  
 85 90 95  
 Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Asn Gln Asn Asp  
 100 105 110  
 Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Ser Ser Thr Phe Val Tyr

1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000

|     |     |     |     |     |     |     |     |     |     |       |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|--|
|     |     | 115 |     |     |     |     | 120 |     |     |       |     | 125 |     |     |     |  |
| Asn | Ser | Ile | Gly | Thr | Ile | Asn | Gln | Gln | Ala | Met   | Asp | Gln | Leu | Tyr | Tyr |  |
|     | 130 |     |     |     |     | 135 |     |     |     |       | 140 |     |     |     |     |  |
| Val | Thr | Glu | Leu | Thr | His | Arg | Ile | Arg | Ser | Lys   | Ser | Ser | Pro | Asp | Glu |  |
| 145 |     |     |     |     | 150 |     |     |     |     | 155   |     |     |     |     | 160 |  |
| Asn | Glu | Asn | Glu | Val | Glu | Asp | Ser | Ala | Asp | Phe   | Val | Ser | Phe | Phe | Pro |  |
|     |     |     |     | 165 |     |     |     |     | 170 |       |     |     |     | 175 |     |  |
| Asp | Phe | Val | Trp | Thr | Leu | Arg | Asp | Phe | Ser | Leu   | Asp | Leu | Glu | Ala | Asp |  |
|     |     |     | 180 |     |     |     |     | 185 |     |       |     |     | 190 |     |     |  |
| Gly | Gln | Pro | Leu | Thr | Pro | Asp | Glu | Tyr | Leu | Thr   | Tyr | Ser | Leu | Lys | Leu |  |
|     |     | 195 |     |     |     |     | 200 |     |     |       |     | 205 |     |     |     |  |
| Lys | Lys | Gly | Thr | Ser | Gln | Lys | Asp | Glu | Thr | Phe   | Asn | Leu | Pro | Arg | Leu |  |
|     | 210 |     |     |     |     | 215 |     |     |     |       | 220 |     |     |     |     |  |
| Cys | Ile | Arg | Lys | Phe | Phe | Pro | Lys | Lys | Lys | Cys   | Phe | Val | Phe | Asp | Arg |  |
| 225 |     |     |     |     | 230 |     |     |     |     | 235   |     |     |     |     | 240 |  |
| Pro | Val | His | Arg | Arg | Lys | Leu | Ala | Gln | Leu | Glu   | Lys | Leu | Gln | Asp | Glu |  |
|     |     |     |     | 245 |     |     |     |     | 250 |       |     |     |     | 255 |     |  |
| Glu | Leu | Asp | Pro | Glu | Phe | Val | Gln | Gln | Val | Ala   | Asp | Phe | Cys | Ser | Tyr |  |
|     |     |     | 260 |     |     |     |     | 265 |     |       |     |     | 270 |     |     |  |
| Ile | Phe | Ser | Asn | Ser | Lys | Thr | Lys | Thr | Leu | Ser   | Gly | Gly | Ile | Gln | Val |  |
|     |     | 275 |     |     |     |     | 280 |     |     |       |     | 285 |     |     |     |  |
| Asn | Gly | Pro | Arg | Leu | Glu | Ser | Leu | Val | Leu | Thr   | Tyr | Val | Asn | Ala | Ile |  |
|     | 290 |     |     |     |     | 295 |     |     |     |       | 300 |     |     |     |     |  |
| Ser | Ser | Gly | Asp | Leu | Pro | Cys | Met | Glu | Asn | Ala   | Val | Leu | Ala | Leu | Ala |  |
| 305 |     |     |     |     | 310 |     |     |     |     | 315   |     |     |     |     | 320 |  |
| Gln | Ile | Glu | Asn | Ser | Ala | Ala | Val | Gln | Lys | Ala   | Ile | Ala | His | Tyr | Glu |  |
|     |     |     |     | 325 |     |     |     |     | 330 |       |     |     |     | 335 |     |  |
| Gln | Gln | Met | Gly | Gln | Lys | Val | Gln | Leu | Pro | Thr   | Glu | Ser | Leu | Gln | Glu |  |
|     |     |     | 340 |     |     |     |     | 345 |     |       |     |     | 350 |     |     |  |
| Leu | Leu | Asp | Leu | His | Arg | Asp | Ser | Glu | Arg | Glu   | Ala | Ile | Glu | Val | Phe |  |
|     |     | 355 |     |     |     |     | 360 |     |     |       |     | 365 |     |     |     |  |
| Ile | Arg | Ser | Ser | Phe | Lys | Asp | Val | Asp | His | Leu   | Phe | Gln | Lys | Glu | Leu |  |
|     | 370 |     |     |     |     | 375 |     |     |     |       | 380 |     |     |     |     |  |
| Ala | Ala | Gln | Leu | Glu | Lys | Arg | Asp | Asp | Asp | Phe   | Cys | Lys | Gln | Asn | Gln |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395   |     |     |     |     | 400 |  |
| Glu | Ala | Ser | Ser | Asp | Arg | Cys | Ser | Gly | Leu | Leu   | Gln | Val | Ile | Phe | Ser |  |
|     |     |     |     | 405 |     |     |     |     | 410 |       |     |     |     | 415 |     |  |
| Pro | Leu | Glu | Glu | Glu | Val | Lys | Ala | Gly | Ile | Tyr   | Ser | Lys | Pro | Gly | Gly |  |
|     |     |     | 420 |     |     |     |     | 425 |     |       |     |     | 430 |     |     |  |
| Tyr | Arg | Leu | Phe | Val | Gln | Lys | Leu | Gln | Asp | Leu   | Lys | Lys | Lys | Tyr | Tyr |  |
|     |     | 435 |     |     |     |     | 440 |     |     |       |     | 445 |     |     |     |  |
| Glu | Glu | Pro | Arg | Lys | Gly | Ile | Gln | Ala | Glu | Glu   | Ile | Leu | Gln | Thr | Tyr |  |
|     | 450 |     |     |     |     | 455 |     |     |     |       | 460 |     |     |     |     |  |
| Leu | Lys | Ser | Lys | Glu | Ser | Met | Thr | Asp | Ala | Ile   | Leu | Gln | Thr | Asp | Gln |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475</ |     |     |     |     |     |  |



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<210> 1810
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<210> 1811
<211> 148
<212> PRT
<213> Homo sapiens
```

```
<210> 1812
<211> 474
<212> PRT
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<400> 1812

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Gln | Gln | Thr | Asn | Asn | Ala | Glu | Asn | Thr | Glu | Ala | Leu | Leu | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly | Glu | Ser | Ser | Asp | Ser | Gly | Ala | Gly | Leu | Glu | Leu | Gly | Ile | Ala | Ser |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ser | Pro | Thr | Pro | Gly | Ser | Thr | Ala | Ser | Thr | Gly | Gly | Lys | Ala | Asp | Asp |
|     |     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Pro | Ser | Trp | Cys | Lys | Thr | Pro | Ser | Gly | His | Ile | Lys | Arg | Pro | Met | Asn |
|     |     |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ala | Phe | Met | Val | Trp | Ser | Gln | Ile | Glu | Arg | Arg | Lys | Ile | Met | Glu | Gln |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Ser | Pro | Asp | Met | His | Asn | Ala | Glu | Ile | Ser | Lys | Arg | Leu | Gly | Lys | Arg |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Trp | Lys | Leu | Leu | Lys | Asp | Ser | Asp | Lys | Ile | Pro | Phe | Ile | Arg | Glu | Ala |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Glu | Arg | Leu | Arg | Leu | Lys | His | Met | Ala | Asp | Tyr | Pro | Asp | Tyr | Lys | Tyr |
|     |     |     | 115 |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Arg | Pro | Arg | Lys | Lys | Val | Lys | Ser | Gly | Asn | Ala | Asn | Ser | Ser | Ser | Ser |
|     |     |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Ala | Ala | Ser | Ser | Lys | Pro | Gly | Glu | Lys | Gly | Asp | Lys | Val | Gly | Gly |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |
| Ser | Gly | Gly | Gly | Gly | His | Gly | Gly | Gly | Gly | Gly | Gly | Gly | Ser | Ser | Asn |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Ala | Gly | Gly | Gly | Gly | Gly | Gly | Ala | Ser | Gly | Gly | Gly | Ala | Asn | Ser | Lys |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Pro | Ala | Gln | Lys | Lys | Ser | Cys | Gly | Ser | Lys | Val | Ala | Gly | Gly | Ala | Gly |
|     |     |     | 195 |     |     |     | 200 |     |     |     |     | 205 |     |     |     |
| Gly | Gly | Val | Ser | Lys | Pro | His | Ala | Lys | Leu | Ile | Leu | Ala | Gly | Gly | Gly |
|     |     |     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     |
| Gly | Gly | Gly | Lys | Ala | Ala | Ala | Ala | Ala | Ala | Ala | Ser | Phe | Ala | Ala | Glu |
| 225 |     |     |     | 230 |     |     |     |     |     | 235 |     |     |     |     | 240 |
| Gln | Ala | Gly | Ala | Ala | Ala | Leu | Leu | Pro | Leu | Gly | Ala | Ala | Ala | Asp | His |
|     |     |     |     | 245 |     |     |     |     |     | 250 |     |     |     | 255 |     |
| His | Ser | Leu | Tyr | Lys | Ala | Arg | Thr | Pro | Ser | Ala | Ser | Ala | Ser | Ala | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Ser | Ala | Ala | Ser | Ala | Ser | Ala | Ala | Leu | Ala | Ala | Pro | Gly | Lys | His | Leu |
|     |     |     | 275 |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Ala | Glu | Lys | Lys | Val | Lys | Arg | Val | Tyr | Leu | Phe | Gly | Gly | Leu | Gly | Thr |
|     |     |     |     |     |     | 295 |     |     |     | 300 |     |     |     |     |     |
| Ser | Ser | Ser | Pro | Val | Gly | Gly | Val | Gly | Ala | Gly | Ala | Asp | Pro | Ser | Asp |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Pro | Leu | Gly | Leu | Tyr | Glu | Glu | Glu | Gly | Ala | Gly | Cys | Ser | Pro | Asp | Ala |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Pro | Ser | Leu | Ser | Gly | Arg | Ser | Ser | Ala | Ala | Ser | Ser | Pro | Ala | Ala | Gly |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Arg | Ser | Pro | Ala | Asp | His | Arg |     |     |     |     |     |     |     |     |     |

```
<210> 1813
<211> 238
<212> PRT
<213> Homo sapiens
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```
<210> 1814
<211> 68
<212> PRT
<213> Homo sapiens
```

&lt;400&gt; 1814

Met Val Tyr Tyr Pro Glu Leu Phe Val Trp Val Ser Gln Glu Pro Phe  
 1 5 10 15  
 Pro Asn Lys Asp Met Glu Gly Arg Leu Pro Lys Gly Arg Leu Pro Val  
 20 25 30  
 Pro Lys Glu Val Asn Arg Lys Lys Asn Asp Glu Thr Asn Ala Ala Ser  
 35 40 45  
 Leu Thr Pro Leu Gly Ser Ser Glu Leu Arg Ser Pro Arg Ile Ser Tyr  
 50 55 60  
 Leu His Phe Phe  
 65

&lt;210&gt; 1815

&lt;211&gt; 572

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1815

Met Ser Tyr Gln Gly Lys Lys Ser Ile Pro His Ile Thr Ser Asp Arg  
 1 5 10 15  
 Leu Leu Ile Lys Gly Gly Arg Ile Ile Asn Asp Asp Gln Ser Leu Tyr  
 20 25 30  
 Ala Asp Val Tyr Leu Glu Asp Gly Leu Ile Lys Gln Ile Gly Glu Asn  
 35 40 45  
 Leu Ile Val Pro Gly Gly Val Lys Thr Ile Glu Ala Asn Gly Arg Met  
 50 55 60  
 Val Ile Pro Gly Gly Ile Asp Val Asn Thr Tyr Leu Gln Lys Pro Ser  
 65 70 75 80  
 Gln Gly Met Thr Ala Ala Asp Asp Phe Phe Gln Gly Thr Arg Ala Ala  
 85 90 95  
 Leu Val Gly Gly Thr Thr Met Ile Ile Asp His Val Val Pro Glu Pro  
 100 105 110  
 Gly Ser Ser Leu Leu Thr Ser Phe Glu Lys Trp His Glu Ala Ala Asp  
 115 120 125  
 Thr Lys Ser Cys Cys Asp Tyr Ser Leu His Val Asp Ile Thr Ser Trp  
 130 135 140  
 Tyr Asp Gly Val Arg Glu Glu Leu Glu Val Leu Val Gln Asp Lys Gly  
 145 150 155 160  
 Val Asn Ser Phe Gln Val Tyr Met Ala Tyr Lys Asp Val Tyr Gln Met  
 165 170 175  
 Ser Asp Ser Gln Leu Tyr Glu Ala Phe Thr Phe Leu Lys Gly Leu Gly  
 180 185 190  
 Ala Val Ile Leu Val His Ala Glu Asn Gly Asp Leu Ile Ala Gln Glu  
 195 200 205  
 Gln Lys Arg Ile Leu Glu Met Gly Ile Thr Gly Pro Glu Gly His Ala  
 210 215 220  
 Leu Ser Arg Pro Glu Glu Leu Glu Ala Glu Ala Val Phe Arg Ala Ile  
 225 230 235 240  
 Thr Ile Ala Gly Arg Ile Asn Cys Pro Val Tyr Ile Thr Lys Val Met  
 245 250 255  
 Ser Lys Ser Ala Ala Asp Ile Ile Ala Leu Ala Arg Lys Lys Gly Pro  
 260 265 270  
 Leu Val Phe Gly Glu Pro Ile Ala Ala Ser Leu Gly Thr Asp Gly Thr

1001754-100904

```

      275              280              285
His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Ala Phe Val Thr Ser
      290              295              300
Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Tyr Leu Thr Ser Leu
305              310              315              320
Leu Ala Cys Gly Asp Leu Gln Val Thr Gly Ser Gly His Cys Pro Tyr
      325              330              335
Ser Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
      340              345              350
Glu Gly Val Asn Gly Ile Glu Glu Arg Met Thr Val Val Trp Asp Lys
      355              360              365
Ala Val Ala Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
      370              375              380
Ser Thr Asn Ala Ala Lys Ile Phe Asn Leu Tyr Pro Arg Lys Gly Arg
385              390              395              400
Ile Ala Val Gly Ser Asp Ala Asp Val Val Ile Trp Asp Pro Asp Lys
      405              410              415
Leu Lys Thr Ile Thr Ala Lys Ser His Lys Ser Ala Val Glu Tyr Asn
      420              425              430
Ile Phe Glu Gly Met Glu Cys His Gly Ser Pro Leu Val Val Ile Ser
      435              440              445
Gln Gly Lys Ile Val Phe Glu Asp Gly Asn Ile Asn Val Asn Lys Gly
      450              455              460
Met Gly Arg Phe Ile Pro Arg Lys Ala Phe Pro Glu His Leu Tyr Gln
465              470              475              480
Arg Val Lys Ile Arg Asn Lys Val Phe Gly Leu Gln Gly Val Ser Arg
      485              490              495
Gly Met Tyr Asp Gly Pro Val Tyr Glu Val Pro Ala Thr Pro Lys Tyr
      500              505              510
Ala Thr Pro Ala Pro Ser Ala Lys Ser Ser Pro Ser Lys His Gln Pro
      515              520              525
Pro Pro Ile Arg Asn Leu His Gln Ser Asn Phe Ser Leu Ser Gly Ala
      530              535              540
Gln Ile Asp Asp Asn Asn Pro Arg Arg Thr Gly His Arg Ile Val Ala
545              550              555              560
Pro Pro Gly Gly Arg Ser Asn Ile Thr Ser Leu Gly
      565              570

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<210> 1816

<211> 325

<212> PRT

<213> Homo sapiens

<400> 1816

```

Met Thr Glu Arg Arg Arg Asp Glu Leu Ser Glu Glu Ile Asn Asn Leu
 1              5              10              15
Arg Glu Lys Val Met Lys Gln Ser Glu Glu Asn Asn Asn Leu Gln Ser
      20              25              30
Gln Val Gln Lys Leu Thr Glu Glu Asn Thr Thr Leu Arg Glu Gln Val
      35              40              45
Glu Pro Thr Pro Glu Asp Glu Asp Asp Asp Ile Glu Leu Arg Gly Ala
      50              55              60
Ala Ala Ala Ala Ala Pro Pro Pro Pro Ile Glu Glu Glu Cys Pro Glu

```

```

65          70          75          80
Asp Leu Pro Glu Lys Phe Asp Gly Asn Pro Asp Met Leu Ala Pro Phe
      85          90          95
Met Ala Gln Cys Gln Ile Phe Met Glu Lys Ser Thr Arg Asp Phe Ser
      100         105         110
Val Asp Arg Val Arg Val Cys Phe Val Thr Ser Met Met Thr Gly Arg
      115         120         125
Ala Ala Arg Trp Ala Ser Ala Lys Leu Glu Arg Ser His Tyr Leu Met
      130         135         140
His Asn Tyr Pro Ala Phe Met Met Glu Met Lys His Val Phe Glu Asp
      145         150         155         160
Pro Gln Arg Arg Glu Val Ala Lys Arg Lys Ile Arg Arg Leu Arg Gln
      165         170         175
Gly Met Gly Ser Val Ile Asp Tyr Ser Asn Ala Phe Gln Met Ile Ala
      180         185         190
Gln Asp Leu Asp Trp Asn Glu Pro Ala Leu Ile Asp Gln Tyr His Glu
      195         200         205
Gly Leu Ser Asp His Ile Gln Glu Glu Leu Ser His Leu Glu Val Ala
      210         215         220
Lys Ser Leu Ser Ala Leu Ile Gly Gln Cys Ile His Ile Glu Arg Arg
      225         230         235         240
Leu Ala Arg Ala Ala Ala Ala Arg Lys Pro Arg Ser Pro Pro Arg Ala
      245         250         255
Leu Val Leu Pro His Ile Ala Ser His His Gln Val Asp Pro Thr Glu
      260         265         270
Pro Val Gly Gly Ala Arg Met Arg Leu Thr Gln Glu Glu Lys Glu Arg
      275         280         285
Arg Arg Lys Leu Asn Leu Cys Leu Tyr Cys Gly Thr Gly Gly His Tyr
      290         295         300
Ala Asp Asn Cys Pro Ala Lys Ala Ser Lys Ser Ser Pro Ala Gly Asn
      305         310         315         320
Ser Pro Ala Pro Leu
      325

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<210> 1817  
 <211> 357  
 <212> PRT  
 <213> Homo sapiens

<400> 1817  
 Met Leu Gln Ile His Leu Pro Gly Arg His Thr Leu Phe Val Arg Ala  
 1 5 10 15  
 Met Ile Asp Ser Gly Ala Ser Gly Asn Phe Ile Asp His Glu Tyr Val  
 20 25 30  
 Ala Gln Asn Gly Ile Pro Leu Arg Ile Lys Asp Trp Pro Ile Leu Val  
 35 40 45  
 Glu Ala Ile Asp Gly Arg Pro Ile Ala Ser Gly Pro Val Val His Glu  
 50 55 60  
 Thr His Asp Leu Ile Val Asp Leu Gly Asp His Arg Glu Val Leu Ser  
 65 70 75 80  
 Phe Asp Val Thr Gln Ser Pro Phe Phe Pro Val Val Leu Gly Val Arg  
 85 90 95  
 Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser Ile

```

100      105      110
Val Phe Asp Ser Glu Tyr Cys Arg Tyr His Cys Arg Met Tyr Ser Pro
115      120      125
Ile Pro Pro Ser Leu Pro Pro Pro Ala Pro Gln Pro Pro Leu Tyr Tyr
130      135      140
Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr Val
145      150      155      160
Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His Arg
165      170      175
Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile Pro
180      185      190
Ser Gly His Val Tyr Ser Leu Ser Glu Pro Glu Met Ala Ala Leu Arg
195      200      205
Asp Phe Val Ala Arg Asn Val Lys Asp Gly Leu Ile Thr Pro Thr Ile
210      215      220
Ala Pro Asn Gly Ala Gln Val Leu Gln Val Lys Arg Gly Trp Lys Leu
225      230      235      240
Gln Val Ser Tyr Asp Cys Arg Ala Pro Asn Asn Phe Thr Ile Gln Asn
245      250      255
Gln Tyr Pro Arg Leu Ser Ile Pro Asn Leu Glu Asp Gln Ala His Leu
260      265      270
Ala Thr Tyr Thr Glu Phe Val Pro Gln Ile Pro Gly Tyr Gln Thr Tyr
275      280      285
Pro Thr Tyr Ala Ala Tyr Pro Thr Tyr Pro Val Gly Phe Ala Trp Tyr
290      295      300
Pro Val Gly Arg Asp Gly Gln Gly Arg Ser Leu Tyr Val Pro Val Met
305      310      315      320
Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln Tyr
325      330      335
Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro
340      345      350
Ser Tyr Ser Thr Leu
355

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<210> 1818
<211> 102
<212> PRT
<213> Homo sapiens

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<400> 1818
Met Ser Thr Gly Asn Thr Val Cys Ser Arg Tyr His Phe Tyr Val Arg
1      5      10      15
Val Asn Gln Ala Val Ile Trp Val Asp Val Leu Ile Tyr Trp Ser Val
20      25      30
His Ile Leu Asp Ile Val Ile Pro His Trp Leu Val Asn Ser Val Ser
35      40      45
Ile Tyr Trp Ile Ile Glu Trp Arg Leu Trp Cys Trp Trp Trp Glu Arg
50      55      60
Trp Trp Tyr Trp Arg Ile His Pro Ala Val Val Ala Ala Val Phe Arg
65      70      75      80
Ile Lys Asp Asp Arg Ser Ser Ala Pro Cys Asp Ile Gly Ile Met Cys
85      90      95
Ala Gln Pro Ala Asn Pro

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```
<210> 1819
<211> 831
<212> PRT
<213> Homo sapiens
```

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Arg | Ala | Gly | Ala | Thr | Ser | Arg | Gly | Gln | Ala | Pro | Gly | Phe |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     | 15  |     |
| Leu | Leu | Arg | Leu | His | Thr | Glu | Gly | Arg | Ala | Glu | Ala | Arg | Val | Gln |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |     |
| Glu | Gln | Asp | Leu | Arg | Gln | Trp | Gly | Leu | Thr | Gly | Ile | His | Leu | Arg |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     | Ser |
| Tyr | Gln | Leu | Glu | Gly | Val | Asn | Trp | Leu | Ala | Gln | Arg | Phe | His | Cys |
|     | 50  |     |     |     |     | 55  |     |     |     | 60  |     |     |     | Gln |
| Asn | Gly | Cys | Ile | Leu | Gly | Asp | Glu | Met | Gly | Leu | Gly | Lys | Thr | Cys |
| 65  |     |     |     |     | 70  |     |     |     | 75  |     |     |     |     | 80  |
| Thr | Ile | Ala | Leu | Phe | Ile | Tyr | Leu | Ala | Gly | Arg | Leu | Asn | Asp | Glu |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |
| Pro | Phe | Leu | Ile | Leu | Cys | Pro | Leu | Ser | Val | Leu | Ser | Asn | Trp | Lys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 | Glu |
| Glu | Met | Gln | Arg | Phe | Ala | Pro | Gly | Leu | Ser | Cys | Val | Thr | Tyr | Ala |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     | Gly |
| Asp | Lys | Glu | Glu | Arg | Ala | Cys | Leu | Gln | Gln | Asp | Leu | Lys | Gln | Glu |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     | Ser |
| Arg | Phe | His | Val | Leu | Leu | Thr | Thr | Tyr | Glu | Ile | Cys | Leu | Lys | Asp |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |
| Ser | Phe | Leu | Lys | Ser | Phe | Pro | Trp | Ser | Val | Leu | Val | Val | Asp | Glu |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |
| His | Arg | Leu | Lys | Asn | Gln | Ser | Ser | Leu | Leu | His | Lys | Thr | Leu | Ser |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 | Glu |
| Phe | Ser | Val | Val | Phe | Ser | Leu | Leu | Leu | Thr | Gly | Thr | Pro | Ile | Gln |
|     | 195 |     |     |     |     | 200 |     |     |     |     |     | 205 |     | Asn |
| Ser | Leu | Gln | Glu | Leu | Tyr | Ser | Leu | Leu | Ser | Phe | Val | Glu | Pro | Asp |
|     | 210 |     |     |     |     | 215 |     |     |     |     | 220 |     |     | Leu |
| Phe | Ser | Lys | Glu | Glu | Val | Gly | Asp | Phe | Ile | Gln | Arg | Tyr | Gln | Asp |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | Ile |
| Glu | Lys | Glu | Ser | Glu | Ser | Ala | Ser | Glu | Leu | His | Lys | Leu | Leu | Gln |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Phe | Leu | Leu | Arg | Arg | Val | Lys | Ala | Glu | Val | Ala | Thr | Glu | Leu | Pro |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 | Lys |
| Lys | Thr | Glu | Val | Val | Ile | Tyr | His | Gly | Met | Ser | Ala | Leu | Gln | Lys |
|     | 275 |     |     |     |     | 280 |     |     |     |     |     | 285 |     | Lys |
| Tyr | Tyr | Lys | Ala | Ile | Leu | Met | Lys | Asp | Leu | Asp | Ala | Phe | Glu | Asn |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     | Glu |
| Thr | Ala | Lys | Lys | Val | Lys | Leu | Gln | Asn | Ile | Leu | Ser | Gln | Leu | Arg |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | Lys |
| Cys | Val | Asp | His | Pro | Tyr | Leu | Phe | Asp | Gly | Val | Glu | Pro | Glu | Pro |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |
| Glu | Val | Gly | Asp | His | Leu | Thr | Glu | Ala | Ser | Gly | Lys | Leu | His | Leu |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 | Leu |
| Asp | Lys | Leu | Leu | Ala | Phe | Leu | Tyr | Ser |     |     |     |     |     |     |



|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|     |     | 355 |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |  |
| Phe | Ser | Gln | Met | Thr | Gln | Met | Leu | Asp | Ile | Leu | Gln | Asp | Tyr | Met | Asp |  |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |  |
| Tyr | Arg | Gly | Tyr | Ser | Tyr | Glu | Arg | Val | Asp | Gly | Ser | Val | Arg | Gly | Glu |  |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |  |
| Glu | Arg | His | Leu | Ala | Ile | Lys | Asn | Phe | Gly | Gln | Gln | Pro | Ile | Phe | Val |  |
|     |     |     |     | 405 |     |     |     |     | 410 |     |     |     |     | 415 |     |  |
| Phe | Leu | Leu | Ser | Thr | Arg | Ala | Gly | Gly | Val | Gly | Met | Asn | Leu | Thr | Ala |  |
|     |     |     | 420 |     |     |     | 425 |     |     |     |     |     | 430 |     |     |  |
| Ala | Asp | Thr | Val | Ile | Phe | Val | Asp | Ser | Asp | Phe | Asn | Pro | Gln | Asn | Asp |  |
|     |     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |  |
| Leu | Gln | Ala | Ala | Ala | Arg | Ala | His | Arg | Ile | Gly | Gln | Asn | Lys | Ser | Val |  |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |  |
| Lys | Val | Ile | Arg | Leu | Ile | Gly | Arg | Asp | Thr | Val | Glu | Glu | Ile | Val | Tyr |  |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |  |
| Arg | Lys | Ala | Ala | Ser | Lys | Leu | Gln | Leu | Thr | Asn | Met | Ile | Ile | Glu | Gly |  |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |  |
| Gly | His | Phe | Thr | Leu | Gly | Ala | Gln | Lys | Pro | Ala | Ala | Asp | Ala | Asp | Leu |  |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |  |
| Gln | Leu | Ser | Glu | Ile | Leu | Lys | Phe | Gly | Leu | Asp | Lys | Leu | Leu | Ala | Ser |  |
|     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |  |
| Glu | Gly | Ser | Thr | Met | Asp | Glu | Ile | Asp | Leu | Glu | Ser | Ile | Leu | Gly | Glu |  |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |  |
| Thr | Lys | Asp | Gly | Gln | Trp | Val | Ser | Asp | Ala | Leu | Pro | Ala | Ala | Glu | Gly |  |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |  |
| Gly | Ser | Arg | Asp | Gln | Glu | Glu | Gly | Lys | Asn | His | Met | Tyr | Leu | Phe | Glu |  |
|     |     |     |     | 565 |     |     |     |     | 570 |     |     |     |     | 575 |     |  |
| Gly | Lys | Asp | Tyr | Ser | Lys | Glu | Pro | Ser | Lys | Glu | Asp | Arg | Lys | Ser | Phe |  |
|     |     | 580 |     |     |     |     |     | 585 |     |     |     |     | 590 |     |     |  |
| Glu | Gln | Leu | Val | Asn | Leu | Gln | Lys | Thr | Leu | Leu | Glu | Lys | Ala | Ser | Gln |  |
|     |     | 595 |     |     |     |     | 600 |     |     |     |     | 605 |     |     |     |  |
| Glu | Gly | Arg | Ser | Leu | Arg | Asn | Lys | Gly | Ser | Val | Leu | Ile | Pro | Gly | Leu |  |
|     | 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |  |
| Val | Glu | Gly | Ser | Thr | Lys | Arg | Lys | Arg | Val | Leu | Ser | Pro | Glu | Glu | Leu |  |
| 625 |     |     |     |     | 630 |     |     |     |     | 635 |     |     |     |     | 640 |  |
| Glu | Asp | Arg | Gln | Lys | Lys | Arg | Gln | Glu | Ala | Ala | Ala | Lys | Arg | Arg | Arg |  |
|     |     |     |     | 645 |     |     |     |     | 650 |     |     |     |     | 655 |     |  |
| Leu | Ile | Glu | Glu | Lys | Lys | Arg | Gln | Lys | Glu | Glu | Ala | Glu | His | Lys | Lys |  |
|     |     |     | 660 |     |     |     |     | 665 |     |     |     |     | 670 |     |     |  |
| Lys | Val | Ala | Trp | Trp | Glu | Ser | Asn | Asn | Tyr | Gln | Ser | Phe | Cys | Leu | Pro |  |
|     |     | 675 |     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |  |
| Ser | Glu | Glu | Ser | Glu | Pro | Glu | Asp | Leu | Glu | Asn | Gly | Glu | Glu | Ser | Ser |  |
|     | 690 |     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |  |
| Ala | Glu | Leu | Asp | Tyr | Gln | Asp | Pro | Asp | Ala | Thr | Ser | Leu | Lys | Tyr | Val |  |
| 705 |     |     |     |     | 710 |     |     |     |     | 7   |     |     |     |     |     |  |

|   |     |     |     |     |     |     |
|---|-----|-----|-----|-----|-----|-----|
| 785   |     | 790 |     | 795 |     | 800 |
| Ile Val Ala Gln His Arg Asp Arg Ser Asn Val Leu Ser Gly Ile Lys |     |     |     |     |     |     |
|   | 805 |     | 810 |     | 815 |     |
| Met Ala Ala Leu Glu Glu Gly Leu Lys Lys Ile Phe Leu Ala Ala     |     |     |     |     |     |     |
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<210> 1820  
 <211> 212  
 <212> PRT  
 <213> Homo sapiens

<400> 1820

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Leu | Asn | Lys | Val | Leu | Ser | Arg | Leu | Gly | Val | Ala | Gly | Gln | Trp | Arg |
| 1   |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Phe | Val | Asp | Val | Leu | Gly | Leu | Glu | Glu | Ser | Leu | Gly | Ser | Val | Pro |     |
|     |     | 20  |     |     |     |     | 25  |     |     |     | 30  |     |     |     |     |
| Ala | Pro | Ala | Cys | Ala | Leu | Leu | Leu | Leu | Phe | Pro | Leu | Thr | Ala | Gln | His |
|     |     | 35  |     |     |     | 40  |     |     |     |     | 45  |     |     |     |     |
| Glu | Asn | Phe | Arg | Lys | Lys | Gln | Ile | Glu | Glu | Leu | Lys | Gly | Gln | Glu | Val |
|     | 50  |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |     |
| Ser | Pro | Lys | Val | Tyr | Phe | Met | Lys | Gln | Thr | Ile | Gly | Asn | Ser | Cys | Gly |
| 65  |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |     |
| Thr | Ile | Gly | Leu | Ile | His | Ala | Val | Ala | Asn | Asn | Gln | Asp | Lys | Leu | Gly |
|     |     |     | 85  |     |     |     |     | 90  |     |     |     |     |     | 95  |     |
| Phe | Glu | Asp | Gly | Ser | Val | Leu | Lys | Gln | Phe | Leu | Ser | Glu | Thr | Glu | Lys |
|     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |     |
| Met | Ser | Pro | Glu | Asp | Arg | Ala | Lys | Cys | Phe | Glu | Lys | Asn | Glu | Ala | Ile |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Gln | Ala | Ala | His | Asp | Ala | Val | Ala | Gln | Glu | Gly | Gln | Cys | Arg | Val | Asp |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Asp | Lys | Val | Asn | Phe | His | Phe | Ile | Leu | Phe | Asn | Asn | Val | Asp | Gly | His |
| 145 |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |     |
| Leu | Tyr | Glu | Leu | Asp | Gly | Arg | Met | Pro | Phe | Pro | Val | Asn | His | Gly | Ala |
|     |     |     | 165 |     |     |     |     | 170 |     |     |     |     |     | 175 |     |
| Ser | Ser | Glu | Asp | Thr | Leu | Leu | Lys | Asp | Ala | Ala | Lys | Val | Cys | Arg | Glu |
|     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |
| Phe | Thr | Glu | Arg | Glu | Gln | Gly | Glu | Val | Arg | Phe | Ser | Ala | Val | Ala | Leu |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Cys | Lys | Ala | Ala |     |     |     |     |     |     |     |     |     |     |     |     |
|     | 210 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 1821  
 <211> 323  
 <212> PRT  
 <213> Homo sapiens

<400> 1821

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Ser | Lys | Tyr | Gln | Cys | Val | Lys | Leu | Asn | Asp | Gly | His | Phe | Met |
| 1   |     |     | 5   |     |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Pro | Val | Leu | Gly | Phe | Gly | Thr | Tyr | Ala | Pro | Ala | Glu | Val | Pro | Lys | Ser |
|     |     | 20  |     |     |     |     |     | 25  |     |     |     | 30  |     |     |     |
| Lys | Ala | Leu | Glu | Ala | Val | Lys | Leu | Ala | Ile | Glu | Ala | Gly | Tyr | His | His |

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<210> 1822
<211> 141
<212> PRT
<213> Homo sapiens
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|            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| <400> 1822 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Met        | Gly | Phe | Gln | Lys | Phe | Ser | Pro | Phe | Leu | Ala | Leu | Ser | Ile | Leu | Val |
| 1          |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Leu        | Leu | Gln | Ala | Gly | Ser | Leu | His | Ala | Ala | Pro | Phe | Arg | Ser | Ala | Leu |
|            |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Glu        | Ser | Ser | Pro | Ala | Asp | Pro | Ala | Thr | Leu | Ser | Glu | Asp | Glu | Ala | Arg |
|            |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Leu        | Leu | Leu | Ala | Ala | Leu | Val | Gln | Asp | Tyr | Val | Gln | Met | Lys | Ala | Ser |
|            | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Glu        | Leu | Glu | Gln | Glu | Gln | Glu | Arg | Glu | Gly | Ser | Ser | Leu | Asp | Ser | Pro |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Arg | Ser | Lys | Arg | Cys | Gly | Asn | Leu | Ser | Thr | Cys | Met | Leu | Gly | Thr | Tyr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Thr | Gln | Asp | Phe | Asn | Lys | Phe | His | Thr | Phe | Pro | Gln | Thr | Ala | Ile | Gly |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Val | Gly | Ala | Pro | Gly | Lys | Lys | Arg | Asp | Met | Ser | Ser | Asp | Leu | Glu | Arg |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Asp | His | Arg | Pro | His | Val | Ser | Met | Pro | Gln | Asn | Ala | Asn |     |     |     |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |

&lt;210&gt; 1823

&lt;211&gt; 6188

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1823

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| ttcttgcatg  | tttaaact    | taaaattttt  | agtataat   | ttagtgtgtt  | ttgaagtgg   | 4020 |
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| ctaagtaaaa  | atgataagta  | acatagtgt   | aaatattcct | ttactgtgaa  | cttcttacia  | 4140 |
| tgctgtgaat  | gagaggctcc  | tcagaactgg  | agcatttgta | taataattca  | tcctgttcat  | 4200 |
| cttcaatttt  | aacatcatat  | ataatttcaa  | ttctatcaat | tgggccttta  | aaaatcatat  | 4260 |
| aaaaggatat  | aaaatttgaa  | aagagaaaac  | taattggcta | tttaatccaa  | aacaactttt  | 4320 |
| ttttttcctt  | caatggaatc  | agaaagcttg  | tcaatcactc | atgtgtttta  | gagtaattac  | 4380 |
| ttttaaaatg  | gtgcatttgt  | gcttctgaac  | tattttgaag | agtcacttct  | gtttacctca  | 4440 |
| agtatcaatt  | catcctccat  | acatttgaat  | tcaagttggt | ttttgtcaaa  | tttacagttg  | 4500 |
| tcaattgatc  | ttcaagctgc  | agggtgccta  | gaaatgggcc | gttgtctgta  | gccctggcat  | 4560 |
| gtgcacacgg  | acatttgcca  | ccactgcaag  | caaaagtctg | gagaagttca  | ccaacgacaa  | 4620 |
| gaacgattag  | ggaaaatatg  | ctgctgtggg  | ttaacaactc | agaaagtccc  | tgatccacat  | 4680 |
| ttggctgttt  | actaaagctt  | gtgattaaact | ttttggcagt | gtgtactatg  | ctctattgct  | 4740 |
| atatatgcta  | tctataaatg  | tagatgttaa  | ggataagtaa | ttctaaaatt  | attattctat  | 4800 |
| agttttgaag  | tttggttaa   | tttcccttca  | ctcaattgat | ttattttgtt  | gttaatcaaa  | 4860 |
| tttatgttaa  | ttggatcctt  | taaatttttt  | ttggcatttt | ccaacaaaaa  | tggctttatt  | 4920 |
| cataagaaag  | gaaaaaaatc  | aatggaattt  | gatatctaaa | gaagttagaa  | aggagacaaa  | 4980 |
| ataaaaaaca  | taaaggagat  | agatgaatta  | gtaagcaaat | cagtagtcga  | gtttttcaaa  | 5040 |
| ctggcaaaat  | taattaattg  | acttttagcc  | caaatttaca | ttgttaatta  | aatcaagaag  | 5100 |
| gaagaagatc  | taagagctcc  | cattgatagg  | caagcctaga | gagaactagc  | taaatttatc  | 5160 |
| atgctaggat  | attgaaacac  | agaaagttta  | catacattta | tgaagggtca  | atttagtttg  | 5220 |
| gacagtgagg  | tatttgtctt  | agtggaaaaa  | aggagaatta | gtctgatcaa  | atcgtgaagt  | 5280 |
| aatacagtga  | acttgcaggt  | gcacaaaata  | agagggccac | atctatatgg  | tgcagtctgg  | 5340 |
| aattctgttt  | aagttttag   | gtacctcttg  | gacttctgaa | ttgatccagt  | tgtcatccac  | 5400 |
| cacagacatc  | tcacatcaga  | tacagacagt  | tccaagattg | acaacagaga  | acaacctgct  | 5460 |

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ggaaagacct gggcagaaat ggagagccct gcggaacca tgctacattt tcatctaaag 5520
agagaatgca catctgatga gactgaaagt tctttgttgt tttagattgt agaatgggat 5580
tgaattggtc tgtggaaaat tgcattgctt ttatttcttt gtgtaatcaa gtttaagtaa 5640
taggggatat ataatacataa gcatttttagg gtgggaggga ctattaagta attttaagt 5700
ggtgggggta tttagaatgt tagaataata ttatgtatta gatatcgcta taagtggaca 5760
tgcgtactta cttgtaaccc tttaccctat aattgctatc cttaaagatt tcaaataaac 5820
tcggagggaa ctgcaggag accaacttat ttagagcgaa ttggacatgg ataaaaacc 5880
cagtgggaga aagttcaaag gtgattagat taataattta atagaggatg agtgacctct 5940
gataaattac tgctagaatg aacttgctca tgatggatgg taaattttca tggaagttat 6000
aaaagtgata aataaaaaacc cttgctttta cccctgtcag tagccctcct cctaccactg 6060
aaccctcattg cccctacccc tccttctaac tttattgtctg tattctcttc actctatatt 6120
tctctctatt tgctaataatt gcattgtctgt tacaataaaa attcaataaa gatttagtg 6180
ttaagtgc

```

```

<210> 1824
<211> 866
<212> DNA
<213> Homo sapiens

```

```

<400> 1824
ggcagagcca caggaaggat gaggaagacc aggctctggg ggctgctgtg gatgctcttt 60
gtctcagaac tccgagctgc aactaaatta actgaggaag agtatgaact gaaagagggg 120
cagaccctgg atgtgaaatg tgactacacg ctagagaagt ttgccagcag ccagaaagct 180
tggcagataa taagggacgg agagatgccc aagaccctgg catgcacaga gaggccttca 240
aagaattccc atccagtcga agtggggagg atcactactag aagactacca tgatcatggt 300
ttactgcgcg tccgaatggt caaccttcaa gtggaagatt ctggactgta tcagtgtgtg 360
atctaccagc ctcccaagga gcctcacatg ctgttcgacg gcatccgctt ggtggtgacc 420
aagggttttt cagggacccc tggctccaat gagaattcta cccagaatgt gtataagatt 480
cctcctacca ccactaaggc cttgtgcccc ctctatacca gccccagAAC tgtgacccaa 540
gtccacacca agtcaactgc cgatgtctcc actcctgact ctgaaatcaa ccttacaat 600
gtgacagata tcatcagggt tccggtgttc aacattgtca ttctcctggc tgggtggattc 660
ctgagtaaga gcctggtctt ctctgtcctg tttgctgtca cgctgaggtc atttgtaccc 720
taggcccacg aacccacgag aatgtcctct gacttccagc cacatccatc tggcagttgt 780
gccaaaggag gagggaggag gtaaaaggca gggagttaat aacatgaatt aaatctgtaa 840
tcaccrgcta aaaaaaaaaa aaaaaa

```

```

<210> 1825
<211> 234
<212> PRT
<213> Homo sapiens

```

```

<400> 1825
Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
1           5           10           15
Glu Leu Arg Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
20           25           30
Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
35           40           45
Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
50           55           60
Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val
65           70           75           80

```

Gln Val Gly Arg Ile Ile Leu Glu Asp Tyr His Asp His Gly Leu Leu  
                             85                            90                            95  
 Arg Val Arg Met Val Asn Leu Gln Val Glu Asp Ser Gly Leu Tyr Gln  
                             100                            105                            110  
 Cys Val Ile Tyr Gln Pro Pro Lys Glu Pro His Met Leu Phe Asp Arg  
                             115                            120                            125  
 Ile Arg Leu Val Val Thr Lys Gly Phe Ser Gly Thr Pro Gly Ser Asn  
                             130                            135                            140  
 Glu Asn Ser Thr Gln Asn Val Tyr Lys Ile Pro Thr Thr Thr Lys  
                             145                            150                            155                            160  
 Ala Leu Cys Pro Leu Tyr Thr Ser Pro Arg Thr Val Thr Gln Ala Pro  
                             165                            170                            175  
 Pro Lys Ser Thr Ala Asp Val Ser Thr Pro Asp Ser Glu Ile Asn Leu  
                             180                            185                            190  
 Thr Asn Val Thr Asp Ile Ile Arg Val Pro Val Phe Asn Ile Val Ile  
                             195                            200                            205  
 Leu Leu Ala Gly Gly Phe Leu Ser Lys Ser Leu Val Phe Ser Val Leu  
                             210                            215                            220  
 Phe Ala Val Thr Leu Arg Ser Phe Val Pro  
                             225                            230

<210> 1826  
 <211> 192  
 <212> DNA  
 <213> Homo sapiens

<400> 1826  
 atgcggtgcc acgcccattgg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60  
 gggccgagga gtggaggggc tcaggcgaag ctggggtgct gttgggggta tccgagtccc 120  
 agaagcacct ggaaccccgga cagaagattc tggactcccc agacgggacc aggagagggga 180  
 cggcatgagc ga 192

<210> 1827  
 <211> 288  
 <212> DNA  
 <213> Homo sapiens

<400> 1827  
 cacacacaaa cacagaacca cacagccagt cccaggagcc cagtaatgga gagccccaaa 60  
 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120  
 aggatacagc tgagatccca gtgcgcgaca tggaaggtga tctgcaagag ctgcatcagt 180  
 caaacaccgg ggataaatct ggatttgggt tccggcgtca aggtgaagat aatacctaaa 240  
 gaggaacact gtaaaatgcc agaagcaggt gaagagcaac cacaagtt 288

<210> 1828  
 <211> 141  
 <212> DNA  
 <213> Homo sapiens

<400> 1828  
 cacacacaaa cacagaacca cacagccagt cccaggagcc cagtaatgga gagccccaaa 60  
 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120  
 aggatacagc tgagatccca g 141

1062074492004

```
<400> 1829
gtgctgggaa gggaaatgcg cgacatggaa ggtgatctgc aagagctgca tcagtcaaac 60
accggggata aatctggatt tgggttccgg cgtcaagggtg aagataatac c      111
```

|            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1830 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Met        | Arg | Cys | His | Ala | His | Gly | Pro | Ser | Cys | Leu | Val | Thr | Ala | Ile | Thr |
| 1          |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Arg        | Glu | Glu | Gly | Gly | Pro | Arg | Ser | Gly | Gly | Ala | Gln | Ala | Lys | Leu | Gly |
|            |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Cys        | Cys | Trp | Gly | Tyr | Pro | Ser | Pro | Arg | Ser | Thr | Trp | Asn | Pro | Asp | Arg |
|            |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Arg        | Phe | Trp | Thr | Pro | Gln | Thr | Gly | Pro | Gly | Glu | Gly | Arg | His | Glu | Arg |
|            | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |

|            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1831 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| His        | Thr | Gln | Thr | Gln | Asn | His | Thr | Ala | Ser | Pro | Arg | Ser | Pro | Val | Met |
| 1          |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu        | Ser | Pro | Lys | Lys | Lys | Asn | Gln | Gln | Leu | Lys | Val | Gly | Ile | Leu | His |
|            |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Leu        | Gly | Ser | Arg | Gln | Lys | Lys | Ile | Arg | Ile | Gln | Leu | Arg | Ser | Gln | Cys |
|            |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Ala        | Thr | Trp | Lys | Val | Ile | Cys | Lys | Ser | Cys | Ile | Ser | Gln | Thr | Pro | Gly |
|            | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Ile        | Asn | Leu | Asp | Leu | Gly | Ser | Gly | Val | Lys | Val | Lys | Ile | Ile | Pro | Lys |
| 65         |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu        | Glu | His | Cys | Lys | Met | Pro | Glu | Ala | Gly | Glu | Glu | Gln | Pro | Gln | Val |
|            |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |

<400> 1832  
His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met  
1 5 10 15



Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His  
                   20                  25                  30  
 Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln  
                   35                  40                  45

<210> 1833  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 1833  
 Val Leu Gly Arg Glu Met Arg Asp Met Glu Gly Asp Leu Gln Glu Leu  
   1                  5                  10                  15  
 His Gln Ser Asn Thr Gly Asp Lys Ser Gly Phe Gly Phe Arg Arg Gln  
                   20                  25                  30  
 Gly Glu Asp Asn Thr  
                   35

<210> 1834  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1834  
 Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Thr Ser Ala Tyr  
   1                  5                  10                  15  
 Ala Phe Phe Val  
                   20

<210> 1835  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1835  
 Pro Lys Gly Lys Thr Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg  
   1                  5                  10                  15  
 Glu Glu His Lys  
                   20

<210> 1836  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1836  
 Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro  
   1                  5                  10                  15  
 Glu Val Pro Val  
                   20

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```
<400> 1837
Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu
 1          5          10          15
Phe Ser Lys Lys
      20
```

```
<400> 1838
Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 1          5          10         15
Trp Lys Thr Val
      20
```

```
<400> 1839
Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Val Ser Gly Lys Glu
 1          5          10         15
Lys Ser Lys Phe
      20
```

```

<400> 1840
Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 1          5          10          15
Lys Ala Asp Lys
 20

```

```
<210> 1841
<211> 20
<212> PRT
<213> Homo sapiens
```

Lys Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp  
1 5 10 15  
Arg Glu Met Lys  
20

```
<400> 1842
Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 1          5          10          15
Ala Lys Gly Gly
      20
```

```
<400> 1843
Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys
 1          5          10          15
Asp Pro Asn Ala
      20
```

```
<400> 1844
Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
 1          5          10          15
Pro Ser Gly Phe
      20
```

```
<400> 1845
Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys
 1           5           10           15
Ser Glu Phe Arg
      20
```

<210> 1846  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1846  
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys  
 1 5 10 15  
 Ser Thr Asn Pro  
 20

<210> 1847  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1847  
 Ser Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile  
 1 5 10 15  
 Gly Asp Val Ala  
 20

<210> 1848  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1848  
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly  
 1 5 10 15  
 Glu Met Trp Asn  
 20

<210> 1849  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1849  
 Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp  
 1 5 10 15  
 Ser Glu Lys Gln  
 20

<210> 1850  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

1007641000

1  
Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr  
1 5 10 15  
Lys Ala Ala Lys  
20

```
<211> 20
<212> PRT
<213> Homo sapiens
```

Ser Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys  
1 5 10 15  
Tyr Glu Lys Asp  
20

```
<211> 20
<212> PRT
<213> Homo sapiens
```

Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr  
1 5 10 15  
Lys Ser Lys Gly  
20

```
<211> 20
<212> PRT
<213> Homo sapiens
```

Tyr Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly  
1 5 10 15  
Ala Lys Gly Pro  
20

```
<211> 20
<212> PRT
<213> Homo sapiens
```

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala  
1 5 10 15  
Arg Lys Lys Val  
20

<210> 1855  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1855  
 Ala Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp  
 1 5 10 15  
 Glu Glu Glu Glu  
 20

<210> 1856  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1856  
 Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Gln Glu Glu Glu Glu  
 1 5 10 15  
 Glu Glu Glu Glu  
 20

<210> 1857  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1857  
 agtgcgaatt cgggctgcgt gcaggagg 28

<210> 1858  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1858  
 ggactcgagc tactgcaagt ctggtgtgga tg 32

<210> 1859  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>

1855-1859

<223> PCR primer

<400> 1859

agatgaattc acgcgtccgc gccgcgcggc gca

33

<210> 1860

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1860

agttctcgag tcacctccct gggccccttt g

31

<210> 1861

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1861

|            |             |             |            |            |             |     |
|------------|-------------|-------------|------------|------------|-------------|-----|
| atgcatcacc | atcaccatca  | cacggccgcg  | tccgataact | tccagctgtc | ccaggggtggg | 60  |
| cagggattcg | ccattccgat  | cgggcaggcg  | atggcgatcg | cgggccagat | caagcttccc  | 120 |
| accgttcata | tcgggcctac  | cgccttcctc  | ggcttgggtg | ttgtcgacaa | caacggcaac  | 180 |
| ggcgcacgag | tccaacgcgt  | ggtcgggagc  | gctccggcgg | caagtctcgg | catctccacc  | 240 |
| ggcgacgtga | tcaccgcggt  | cgacggcgct  | ccgatcaact | cggccaccgc | gatggcggac  | 300 |
| gcgcttaacg | ggcatcatcc  | cggtgacgtc  | atctcgggtg | cctggcaaac | caagtgcggc  | 360 |
| ggcacgcgta | cagggaaacgt | gacattggcc  | gagggacccc | cggccgaatt | cacgcgtccg  | 420 |
| cgccgcgcgg | cgcaggggag  | gcgagaggcg  | ccccccggtg | gagagcctga | gccccgcgca  | 480 |
| agtctggcgg | cacctggcga  | gcgagagcgg  | agtcgggctg | gggaccgcgg | ggttgaggcc  | 540 |
| ggaccgcggc | ggggtcgggg  | gagaaaacgcg | cgctgccctg | gcacggggcc | caaccccccg  | 600 |
| gccgcgcgga | atggtatggc  | ccggccggag  | ttaaggccgg | ggggaggcgg | cgagtcccgc  | 660 |
| ggcggcgggc | acgatggggc  | tgcgtgcagg  | aggaacgctg | ggcagggccg | gcgcgggtcg  | 720 |
| ggggggcgcc | gaggggcccc  | ggccgagcgg  | cggcgcgcag | ggcggcagca | tccactcggg  | 780 |
| ccgcacgcgc | gcggtgcaca  | acgtgccgct  | gagcgtgctc | atccggccgc | tgcctgccgt  | 840 |
| gttggacccc | gccaaaggtgc | agagcctcgt  | ggacacgatc | cgggaggacc | cagacagcgt  | 900 |
| gccccccatc | gatgtcctct  | ggatcaaagg  | ggcccaggga | ggtga      |             | 945 |

<210> 1862

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1862

|            |             |            |            |            |             |     |
|------------|-------------|------------|------------|------------|-------------|-----|
| atgcatcacc | atcaccatca  | cacggccgcg | tccgataact | tccagctgtc | ccaggggtggg | 60  |
| cagggattcg | ccattccgat  | cgggcaggcg | atggcgatcg | cgggccagat | caagcttccc  | 120 |
| accgttcata | tcgggcctac  | cgccttcctc | ggcttgggtg | ttgtcgacaa | caacggcaac  | 180 |
| ggcgcacgag | tccaacgcgt  | ggtcgggagc | gctccggcgg | caagtctcgg | catctccacc  | 240 |
| ggcgacgtga | tcaccgcggt  | cgacggcgct | ccgatcaact | cggccaccgc | gatggcggac  | 300 |
| gcgcttaacg | ggcatcatcc  | cggtgacgtc | atctcgggtg | cctggcaaac | caagtgcggc  | 360 |
| ggcacgcgta | cagggaaacgt | gacattggcc | gagggacccc | cggccgaatt | cgggctgcgt  | 420 |
| gcaggaggaa | cgctgggcag  | ggccggcgcg | ggtcgggggg | cgcccagggg | gcccggggcg  | 480 |
| agcggcgggc | cgcagggcgg  | cagcatccac | tcgggcccga | tcgccgcggt | gcacaacgtg  | 540 |





<210> 1864  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<400> 1864  
 Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu  
 1 5 10 15  
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala  
 20 25 30  
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala  
 35 40 45  
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val  
 50 55 60  
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr  
 65 70 75 80  
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr  
 85 90 95  
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser  
 100 105 110  
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr  
 115 120 125  
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Gly Leu Arg Ala Gly Gly Thr  
 130 135 140  
 Leu Gly Arg Ala Gly Ala Gly Arg Gly Ala Pro Glu Gly Pro Gly Pro  
 145 150 155 160  
 Ser Gly Gly Ala Gln Gly Gly Ser Ile His Ser Gly Arg Ile Ala Ala  
 165 170 175  
 Val His Asn Val Pro Leu Ser Val Leu Ile Arg Pro Leu Pro Ser Val  
 180 185 190  
 Leu Asp Pro Ala Lys Val Gln Ser Leu Val Asp Thr Ile Arg Glu Asp  
 195 200 205  
 Pro Asp Ser Val Pro Pro Ile Asp Val Leu Trp Ile Lys Gly Ala Gln  
 210 215 220  
 Gly Gly Asp Tyr Phe Tyr Ser Phe Gly Gly Cys His Arg Tyr Ala Ala  
 225 230 235 240  
 Tyr Gln Gln Leu Gln Arg Glu Thr Ile Pro Ala Lys Leu Val Gln Ser  
 245 250 255  
 Thr Leu Ser Asp Leu Arg Val Tyr Leu Gly Ala Ser Thr Pro Asp Leu  
 260 265 270  
 Gln

<210> 1865  
 <211> 790  
 <212> DNA  
 <213> Homo sapiens

<400> 1865  
 ctgattccgc gactccttgg ccgccgctgc gcatggaaag ctctgccaaag atggagagcg 60  
 gcggcgccgg ccagcagccc cagccgcagc cccagcagcc cttcctgccg cccgcagcct 120  
 gtttctttgc cacggccgca gccgcggcgg ccgcagccgc cgcagcggca gcgcagagcg 180  
 cgcagcagca gcagcagcag cagcagcagc agcagcaggg gccgcagctg agaccggcgg 240

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ccgacggcca gccctcaggg ggcgggtcaca agtcagcgcc caagcaagtc aagcgacagc 300
gctcgtcttc gcccgaactg atgcgctgca aacgcgggct caacttcagc ggctttgggt 360
acagcctgcc gcagcagcag ccggccgccc tggcgcgccc caacgagcgc gagcgcaacc 420
gcgtcaagtt ggtcaacctg ggctttgcca ccttcggga gcacgtcccc aacggcgcg 480
ccaacaagaa gatgagtaag gtggagacac tgcgctcggc ggtcgagtac atccgcgcgc 540
tgcagcagct gctggacgag catgacgcgg tgagcgccc cttccaggca ggcgctcctgt 600
cgcccacccat ctcccccaac tactccaacg acttgaactc catggccggc tcgccgggtct 660
catcctactc gtcggacgag ggctcttacg acccgctcag ccccgaggag caggagcttc 720
tcgaattcac caactggttc tgaggggctc ggcttggtca ggccctggtg cgaatggact 780
ttggaagcag

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<210> 1866

<211> 784

<212> DNA

<213> Homo sapiens

<400> 1866

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ccggccagca gcccagccc cagccccagc agcccttctt gccgcccga gcctgtttct 120
ttgccacggc cgcagccgcg gcggccgcag ccgcccgcag ggcagcgagc agcgcgcagc 180
agcagcagca gcagcagcag cagcagcagc aggcgcgcga gctgagaccg gcggccgacg 240
gccagccctc agggggcggt cacaagtcag cgcccaagca agtcaagcga cagcgctcgt 300
cttcgcccga actgatgcgc tgcaaacgcc ggctcaactt cagcggcttt ggctacagcc 360
tgccgcagca gcagccggcc gccgtggcgc gccgcaacga gcgcgagcgc aaccgcgtca 420
agtttggtcaa cctgggcttt gccacccttc gggagcacgt ccccaacggc gcggccaaca 480
agaagatgag taaggtggag acaactgcgt cggcggtcga gtacatccgc gcgctgcagc 540
agctgctgga cgagcatgac gcggtgagcg ccgccttcca ggcaggcgtc ctgtcgccca 600
ccatctcccc caactactcc aacgaactga actccatggc cggctcgccg gtctcatcct 660
actcgtcgga cgagggctct tacgaccgcg tcagccccga ggagcaggag cttctcgact 720
tcaccaactg gttctgaggg gctcggcctg gtcaggccct ggtgcgaatg gactttggaa 780
gcag

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<210> 1867

<211> 789

<212> DNA

<213> Homo sapiens

<400> 1867

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ttccgcgact ccttggccgc cgctgcgcat ggaaagctct gccaaagatg agagcggcg 60
cgccggccag cagccccagc cgcagcccca gcagcccttc ctgccgccc cagcctgttt 120
ctttgccacg gccgcagccc cggcgggccc agccgcccga gcggcagcgc agagcgcgca 180
gcagcagcag cagcagcagc agcagcagca gcagcaggcg ccgcagctga gaccggcggc 240
cgacggccag ccctcagggg gcggtcacaa gtcagcgccc aagcaagtca agcgacagcg 300
ctcgtcttcg cccgaactga tgcgctgcaa acgcccgttc aacttcagcg gctttggcta 360
cagcctgccc cagcagcagc cgcccgccgt ggcgcgccc aacgagcgc agcgcaaccg 420
cgtcaagttg gtcaacctgg gctttgccac ccttcgggag cacgtcccca acggcgcggc 480
caacaagaag atgagtaagg tggagacact gcgctcggcg gtcgagtaca tccgcgcgct 540
gcagcagctg ctggacgagc atgacgcggt gagcgccgcc ttccaggcag gcgtcctgtc 600
gcccaccatc tcccccaact actccaacga cttgaactcc atggccggct cgccggtctc 660
atcctactcg tcggacgagg gctcttacga cccgctcagc cccgaggagc aggagcttct 720
cgacttcacc aactggttct gaggggctcg gcctggctag gccctggtgc gaatggactt 780
tggaagcag

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<210> 1868

<211> 785  
 <212> DNA  
 <213> Homo sapiens

<400> 1868  
 tctgattccg cgactccttg gccgcgctg cgcattgaaa gctctgcaa gatggagagc 60  
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 tgttttctttg ccacggccgc agccgcggcg gccgcagccg ccgcagcggc agcgagagagc 180  
 gcgcagcagc agcagcagca gcagcagcag caggcgccgc agctgagacc ggcgggccgac 240  
 ggccagccct cagggggcgg tcacaaagta gcgcccagc aagtcaagcg acagcgctcg 300  
 tcttcgcccg aactgatgag ctgcaaacgc cggtcactt tcagcggtt tggctacagc 360  
 ctgcgcagc agcagccggc cgccgtggcg cgccgcaacg agcgcgagcg caaccgcgtc 420  
 aagttgggtca acctgggctt tgccaccctt cgggagcagc tccccaacg cgcgccaac 480  
 aagaagatga gtaaggtgga gacactgcgc tcggcggtcg agtacatccg cgcgctgcag 540  
 cagctgctgg acgagcatga cgcggtgagc gccgccttc aggcaggcgt cctgtcgccc 600  
 accatctccc ccaactactc caacgacttg aactccatgg ccggtcgcc ggtctcatcc 660  
 tactcgctcg acgagggctc ttacgaccgc ctcagccccg aggagcagga gcttctcgac 720  
 ttcaccaact ggttctgagg ggctcggcct ggtcaggccc tgggtcgcaat ggactttgga 780  
 agcag 785

<210> 1869  
 <211> 236  
 <212> PRT  
 <213> Homo sapiens

<400> 1869  
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
 1 5 10 15  
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
 20 25 30  
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln  
 35 40 45  
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro  
 50 55 60  
 Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys  
 65 70 75 80  
 Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu  
 85 90 95  
 Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu  
 100 105 110  
 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg  
 115 120 125  
 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His  
 130 135 140  
 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu  
 145 150 155 160  
 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu  
 165 170 175  
 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr  
 180 185 190  
 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro  
 195 200 205  
 Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro  
 210 215 220

Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe  
225 230 235

<210> 1870  
<211> 236  
<212> PRT  
<213> Homo sapiens

<400> 1870  
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
1 5 10 15  
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
20 25 30  
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln  
35 40 45  
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro  
50 55 60  
Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys  
65 70 75 80  
Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu  
85 90 95  
Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu  
100 105 110  
Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg  
115 120 125  
Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His  
130 135 140  
Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu  
145 150 155 160  
Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu  
165 170 175  
His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr  
180 185 190  
Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro  
195 200 205  
Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro  
210 215 220  
Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe  
225 230 235

<210> 1871  
<211> 237  
<212> PRT  
<213> Homo sapiens

<400> 1871  
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
1 5 10 15  
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
20 25 30  
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln  
35 40 45

10075410694

Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala  
 50 55 60  
 Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His  
 65 70 75 80  
 Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu  
 85 90 95  
 Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser  
 100 105 110  
 Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu  
 115 120 125  
 Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu  
 130 135 140  
 His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr  
 145 150 155 160  
 Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp  
 165 170 175  
 Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro  
 180 185 190  
 Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser  
 195 200 205  
 Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser  
 210 215 220  
 Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe  
 225 230 235

<210> 1872

<211> 234

<212> PRT

<213> Homo sapiens

<400> 1872

Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro  
 1 5 10 15  
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe  
 20 25 30  
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln  
 35 40 45  
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro Gln Leu  
 50 55 60  
 Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys Ser Ala  
 65 70 75 80  
 Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu Met Arg  
 85 90 95  
 Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu Pro Gln  
 100 105 110  
 Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg Asn Arg  
 115 120 125  
 Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His Val Pro  
 130 135 140  
 Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu Arg Ser  
 145 150 155 160  
 Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp  
 165 170 175

1060740607

Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser  
 180 185 190  
 Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser  
 195 200 205  
 Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu  
 210 215 220  
 Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe  
 225 230

<210> 1873  
 <211> 1353  
 <212> DNA  
 <213> Homo sapiens

<400> 1873  
 gcagcatgta acctggcctg catccaggaa atagaggact tcggatcctt ctaaccctac 60  
 caccacaactg gccccagtac attcattctc tcaggaaaaa aaacaagggtc cccacagcaa 120  
 agaaaaggaa taggatcaag agatacgtgg ctgctggcag agcaagcatg aattcgatga 180  
 cttcagcagt tccggtggcc aattctgtgt tgggtggggc accccacaat gggtatcctg 240  
 tgaccccgagg aattatgtct cacgtgcccc tgtatccaaa cagccagccg caagtccacc 300  
 tagttcctgg gaacccacct agtttgggtgt cgaatgtgaa tgggcagcct gtgcagaaaag 360  
 ctctgaaaaga aggcataaac ttggggggcca tccagatcat cattggcctg gctcacatcg 420  
 gcctcggtct catcatggcg acggttctcg taggggaata cctgtctatt tcattctacg 480  
 gaggcctttcc cttctgggga ggcttgggtt ttatcatttc agaattctctc tccgtggcag 540  
 cagaaaatca gccatattct tattgcctgc tgtctggcag tttgggcttg aacatcgta 600  
 gtgcaatctg ctctgcagtt ggagtcatac tcttcacac agatctaagt attccccacc 660  
 catatgccta ccccgactat tacccttacg cctgggggtgt gaaccctgga atggcgattt 720  
 ctggcgtgct gctggtcttc tgccctcctgg agtttggcat cgcagcgca tcttccact 780  
 ttggctgccca gttggtctgc tgtcaatcaa gcaatgtgag tgtcatctat ccaaacatct 840  
 atgcagcaaa cccagtgatc accccagaac cggtgacctc accaccaagt tattccagt 900  
 agatccaagc aaataagtaa ggctacagat tctggaagca tctttcactg ggaccaaag 960  
 aagtcctcct ccttttctgg gcttccataa cccaggtcgt tctgttctg acagctgagg 1020  
 aaacgtctct cccactgttt gtactctcac cttcattctt caattcagtc taggaaacca 1080  
 tgctgtttct ctatcaagaa gaagacagag attttaaaca gatgttaacc aagagggact 1140  
 ccctagggca catgcatcag cacatatgtg ggcattccagc ctctggggcc ttggcacaca 1200  
 cacattcgtg tgctctgctg catgtgagct tgtgggttaa aggaacaaat atttagacat 1260  
 tcaatcttca ctctttcaat tgtgcattca tttataaat agatactgag cattcaaaaa 1320  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1353

<210> 1874  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens

<400> 1874  
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 1 5 10 15  
 Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly Ile Met Ser His  
 20 25 30  
 Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly  
 35 40 45  
 Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys  
 50 55 60

10017541001

Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln Ile Ile Ile Gly  
65 70 75 80  
Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr Val Leu Val Gly  
85 90 95  
Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro Phe Trp Gly Gly  
100 105 110  
Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala Ala Glu Asn Gln  
115 120 125  
Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly Leu Asn Ile Val  
130 135 140  
Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe Ile Thr Asp Leu  
145 150 155 160  
Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala Trp  
165 170 175  
Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu Leu Val Phe Cys  
180 185 190  
Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His Phe Gly Cys Gln  
195 200 205  
Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile  
210 215 220  
Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro  
225 230 235 240  
Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys  
245 250

<210> 1875  
<211> 1155  
<212> DNA  
<213> Homo sapiens

<400> 1875  
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cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120  
accgttcata tcgggcctac cgccttcttc ggcttgggtg ttgtcgacaa caacggcaac 180  
ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240  
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300  
gcgcttaacg ggcacatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360  
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgacttca 420  
gcagttccgg tggccaattc tgtgttggtg gtggcacccc acaatgggta tcctgtgacc 480  
ccaggaatta tgtctcacgt gccctgtat ccaaacagcc agccgcaagt ccacctagtt 540  
cctgggaacc cacctagttt ggtgtcgaat gtgaatgggc agcctgtgca gaaagctctg 600  
aaagaaggca aaaccttggg ggccatccag atcatcattg gcctgggtca catcggcctc 660  
ggctccatca tggcgacggt tctcgtaggg gaatacctgt ctatttcatt ctacggaggc 720  
tttcccttct ggggaggcct gtggtttatc atttcagaat ctctctccgt ggcagcagaa 780  
aatcagccat attcttattg cctgctgtct ggagcttgg gcttgaacat cgtcagtga 840  
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gcctaccccg actattatcc ttacgcctgg ggtgtgaacc ctggaatggc gatttctggc 960  
gtgctgctgg tcttctgcct cctggagttt ggcacgcgat gcgcatcttc ccactttggc 1020  
tgccagttgg tctgctgtca atcaagcaat gtgagtgtca tctatccaaa catctatgca 1080  
gcaaaccag tgatcaccac agaaccggtg acctcaccac caagttattc cagtgaagatc 1140  
caagcaata agtaa 1155

<210> 1876

<212> PRT

<213> Homo sapiens

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | His | His | His | His | His | His | Thr | Ala | Ala | Ser | Asp | Asn | Phe | Gln | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Ser | Gln | Gly | Gly | Gln | Gly | Phe | Ala | Ile | Pro | Ile | Gly | Gln | Ala | Met | Ala |
|     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Ile | Ala | Gly | Gln | Ile | Lys | Leu | Pro | Thr | Val | His | Ile | Gly | Pro | Thr | Ala |
|     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe | Leu | Gly | Leu | Gly | Val | Val | Asp | Asn | Asn | Gly | Asn | Gly | Ala | Arg | Val |
|     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Gln | Arg | Val | Val | Gly | Ser | Ala | Pro | Ala | Ala | Ser | Leu | Gly | Ile | Ser | Thr |
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     | 80  |     |
| Gly | Asp | Val | Ile | Thr | Ala | Val | Asp | Gly | Ala | Pro | Ile | Asn | Ser | Ala | Thr |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Ala | Met | Ala | Asp | Ala | Leu | Asn | Gly | His | His | Pro | Gly | Asp | Val | Ile | Ser |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Val | Thr | Trp | Gln | Thr | Lys | Ser | Gly | Gly | Thr | Arg | Thr | Gly | Asn | Val | Thr |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Leu | Ala | Glu | Gly | Pro | Pro | Ala | Glu | Phe | Met | Thr | Ser | Ala | Val | Pro | Val |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Ala | Asn | Ser | Val | Leu | Val | Val | Ala | Pro | His | Asn | Gly | Tyr | Pro | Val | Thr |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     | 160 |     |
| Pro | Gly | Ile | Met | Ser | His | Val | Pro | Leu | Tyr | Pro | Asn | Ser | Gln | Pro | Gln |
|     |     |     |     | 165 |     |     |     |     | 170 |     |     |     |     | 175 |     |
| Val | His | Leu | Val | Pro | Gly | Asn | Pro | Pro | Ser | Leu | Val | Ser | Asn | Val | Asn |
|     |     |     | 180 |     |     |     |     | 185 |     |     |     |     | 190 |     |     |
| Gly | Gln | Pro | Val | Gln | Lys | Ala | Leu | Lys | Glu | Gly | Lys | Thr | Leu | Gly | Ala |
|     |     | 195 |     |     |     | 200 |     |     |     |     |     | 205 |     |     |     |
| Ile | Gln | Ile | Ile | Ile | Gly | Leu | Ala | His | Ile | Gly | Leu | Gly | Ser | Ile | Met |
|     | 210 |     |     |     | 215 |     |     |     |     |     | 220 |     |     |     |     |
| Ala | Thr | Val | Leu | Val | Gly | Glu | Tyr | Leu | Ser | Ile | Ser | Phe | Tyr | Gly | Gly |
| 225 |     |     |     |     | 230 |     |     |     |     | 235 |     |     |     | 240 |     |
| Phe | Pro | Phe | Trp | Gly | Gly | Leu | Trp | Phe | Ile | Ile | Ser | Glu | Ser | Leu | Ser |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |
| Val | Ala | Ala | Glu | Asn | Gln | Pro | Tyr | Ser | Tyr | Cys | Leu | Leu | Ser | Gly | Ser |
|     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |     |     |
| Leu | Gly | Leu | Asn | Ile | Val | Ser | Ala | Ile | Cys | Ser | Ala | Val | Gly | Val | Ile |
|     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Leu | Phe | Ile | Thr | Asp | Leu | Ser | Ile | Pro | His | Pro | Tyr | Ala | Tyr | Pro | Asp |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Tyr | Tyr | Pro | Tyr | Ala | Trp | Gly | Val | Asn | Pro | Gly | Met | Ala | Ile | Ser | Gly |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     | 320 |     |
| Val | Leu | Leu | Val | Phe | Cys | Leu | Leu | Glu | Phe | Gly | Ile | Ala | Cys | Ala | Ser |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | His | Phe | Gly | Cys | Gln | Leu | Val | Cys |     |     |     |     |     |     |     |



<210> 1877  
 <211> 861  
 <212> DNA  
 <213> Homo sapiens

<400> 1877  
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 <213> Homo sapiens

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&lt;400&gt; 1882

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&lt;210&gt; 1883

&lt;211&gt; 6799

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1883

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1883  
 6799  
 DNA  
 Homo sapiens

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| tgcagtggagc | tgtgatcctg  | ccactgtgct  | ccagcctgga  | tgacagtggg  | accccggtgc  | 3000 |
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| cacctaactc  | ccaccttctt  | tctctgggaa  | atcttctctg  | acatgccag   | atggactcag  | 5640 |
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<210> 1884
<211> 91
<212> PRT
<213> Homo sapiens
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<210> 1885
<211> 56
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| <400> 1885 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Met        | Thr | Trp | Phe | Arg | Arg | Asp | Thr | Arg | Thr | Gly | Ser | Val | Leu | Asn | Arg |  |
| 1          |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |  |
| Leu        | Cys | Lys | Gly | Glu | Arg | His | Arg | Leu | Ser | Ile | Ser | Thr | Ala | Phe | Asn |  |
|            |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |  |
| Ile        | Ser | Ala | Arg | Gly | Glu | Lys | Ala | Cys | Gln | Glu | His | Arg | Pro | Arg | Pro |  |
|            |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |  |

|            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1888 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Met        | Arg | Thr | Pro | Ile | Pro | Arg | Gly | Glu | Arg | Thr | Cys | Ala | Gln | Gly | Leu |
| 1          |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Gly        | Arg | Trp | Trp | Pro | Ala | Gly | Glu | Val | Leu | Phe | Phe | Lys | Ala | Lys | Ser |
|            |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Thr        | Pro | Gly | Pro | Pro | Ala | Ser | Ser | Leu | Ser | Cys | Lys | Leu | Gly | Thr | Arg |
|            |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |

Glu Lys Cys Tyr Phe Cys Leu Ile Lys Leu His Ala Pro Ser His Ser  
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 65 70 75 80  
 Pro Gly Pro Pro Ile Gly Ser Ala Arg Pro Ala Leu Pro Thr Pro Ala  
 85 90 95  
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 Ala Gln Ser Pro Ala Arg Leu Glu Leu Leu Thr Thr Cys Trp Val Cys  
 115 120 125  
 Val Ser Ser Ser Pro Arg Gly Glu Pro Trp Glu Gly His Ser Leu Phe  
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 Ser Gly Pro Pro Arg Ala Leu Arg His Leu Lys Pro Pro Ser Gln Pro  
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 Arg Pro Val Gln Ser Gln Ser Lys Glu Pro Val Phe Arg Ser Leu Ser  
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<210> 1889  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 1889  
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 35 40 45

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 1895

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<212> DNA

<213> Homo sapiens

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<211> 987

<212> DNA

<213> Homo sapiens

<400> 1899

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 <212> DNA  
 <213> Homo sapiens

<400> 1900

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| Met<br>1 | Ser | Lys | Pro | Val<br>5 | Asp | His | Val | Lys | Arg<br>10 | Pro | Met | Asn | Ala | Phe<br>15 | Met |
| Val      | Trp | Ser | Arg | Ala      | Gln | Arg | Arg | Lys | Met       | Ala | Gln | Glu | Asn | Pro       | Lys |
|          |     |     | 20  |          |     |     |     | 25  |           |     |     |     | 30  |           |     |
| Met      | His | Asn | Ser | Glu      | Ile | Ser | Lys | Arg | Leu       | Gly | Ala | Glu | Trp | Lys       | Leu |
|          |     | 35  |     |          |     |     | 40  |     |           |     |     | 45  |     |           |     |
| Leu      | Thr | Glu | Ser | Glu      | Lys | Arg | Pro | Phe | Ile       | Asp | Glu | Ala | Lys | Arg       | Leu |
|          | 50  |     |     |          |     | 55  |     |     |           |     | 60  |     |     |           |     |
| Arg      | Ala | Met | His | Met      | Lys | Glu | His | Pro | Asp       | Tyr | Lys | Tyr | Arg | Pro       | Arg |
| 65       |     |     |     |          | 70  |     |     |     |           | 75  |     |     |     | 80        |     |
| Arg      | Lys | Pro | Lys | Thr      | Leu | Leu | Lys | Lys | Asp       | Lys | Phe | Ala | Phe | Pro       | Val |
|          |     |     |     | 85       |     |     |     |     | 90        |     |     |     |     | 95        |     |
| Pro      | Tyr | Gly | Leu | Gly      | Gly | Val | Ala | Asp | Ala       | Glu | His | Pro | Ala | Leu       | Lys |
|          |     |     | 100 |          |     |     |     | 105 |           |     |     |     | 110 |           |     |
| Ala      | Gly | Ala | Gly | Leu      | His | Ala | Gly | Ala | Gly       | Gly | Gly | Leu | Val | Pro       | Glu |
|          |     | 115 |     |          |     |     | 120 |     |           |     |     | 125 |     |           |     |
| Ser      | Leu | Leu | Ala | Asn      | Pro | Glu | Lys | Ala | Ala       | Ala | Ala | Ala | Ala | Ala       | Ala |
|          | 130 |     |     |          |     | 135 |     |     |           | 140 |     |     |     |           |     |
| Ala      | Ala | Arg | Val | Phe      | Phe | Pro | Gln | Ser | Ala       | Ala | Ala | Ala | Ala | Ala       | Ala |
| 145      |     |     |     |          | 150 |     |     |     |           | 155 |     |     |     |           | 160 |
| Ala      | Ala | Ala | Ala | Ala      | Ala | Gly | Ser | Pro | Tyr       | Ser | Leu | Leu | Asp | Leu       | Gly |
|          |     |     |     | 165      |     |     |     |     | 170       |     |     |     |     | 175       |     |
| Ser      | Lys | Met | Ala | Glu      | Ile | Ser | Ser | Ser | Ser       | Ser | Gly | Leu | Pro | Tyr       | Ala |
|          |     |     | 180 |          |     |     |     | 185 |           |     |     |     | 190 |           |     |

Ser Ser Leu Gly Tyr Pro Thr Ala Gly Ala Gly Ala Phe His Gly Ala  
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 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Gly His Thr His  
 210 215 220  
 Ser His Pro Ser Pro Gly Asn Pro Gly Tyr Met Ile Pro Cys Asn Cys  
 225 230 235 240  
 Ser Ala Trp Pro Ser Pro Gly Leu Gln Pro Pro Leu Ala Tyr Ile Leu  
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 Lys Ile Gln Ala Cys Ser Leu Ser Asp Gly Phe Ile Ile Val Ala Asp  
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 Gln Ser Val Ile Leu Leu Asp Ser Ile Cys Arg Ser Leu Gln Leu His  
 65 70 75 80  
 Leu Val Phe Asp Thr Glu Val Asp Val Val Gly Leu Cys Gln Glu Gly  
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 Lys Phe Leu Leu Val Gly Glu Arg Ser Gly Asn Leu His Leu Ile His  
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 Val Thr Ser Lys Gln Thr Leu Leu Thr Asn Ala Phe Val Gln Lys Ala  
 115 120 125  
 Asn Asp Glu Asn Arg Arg Thr Tyr Gln Asn Leu Val Ile Glu Lys Asp  
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 Gly Ser Asn Glu Gly Thr Tyr Tyr Met Leu Leu Leu Thr Tyr Ser Gly  
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 Phe Phe Cys Ile Thr Asn Leu Gln Leu Leu Lys Ile Gln Gln Ala Ile  
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 Glu Asn Val Asp Phe Ser Thr Ala Lys Lys Leu Gln Gly Gln Ile Lys  
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 Ser Ser Phe Ile Ser Thr Glu Asn Tyr His Thr Leu Gly Cys Leu Ser  
 195 200 205  
 Leu Val Ala Gly Asp Leu Ala Ser Glu Val Pro Val Ile Ile Gly Gly  
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 Thr Gly Asn Cys Ala Phe Ser Lys Trp Glu Pro Asp Ser Ser Lys Lys  
 225 230 235 240  
 Gly Met Thr Val Lys Asn Leu Ile Asp Ala Glu Ile Ile Lys Gly Ala  
 245 250 255  
 Lys Lys Phe Gln Leu Ile Asp Asn Leu Leu Phe Val Leu Asp Thr Asp  
 260 265 270

1903 2209 PRT Homo sapiens

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Val | Leu | Ser | Leu | Trp | Asp | Ile | Tyr | Thr | Leu | Thr | Pro | Val | Trp | Asn |
|     | 275 |     |     |     |     |     | 280 |     |     |     |     | 285 |     |     |     |
| Trp | Pro | Ser | Leu | His | Val | Glu | Glu | Phe | Leu | Leu | Thr | Thr | Glu | Ala | Asp |
|     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |     |     |     |     |
| Ser | Pro | Ser | Ser | Val | Thr | Trp | Gln | Gly | Ile | Thr | Asn | Leu | Lys | Leu | Ile |
| 305 |     |     |     |     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |
| Ala | Leu | Thr | Ala | Ser | Ala | Asn | Lys | Lys | Met | Lys | Asn | Leu | Met | Val | Tyr |
|     |     |     |     | 325 |     |     |     |     | 330 |     |     |     |     | 335 |     |
| Ser | Leu | Pro | Thr | Met | Glu | Ile | Leu | Tyr | Ser | Leu | Glu | Val | Ser | Ser | Val |
|     |     |     | 340 |     |     |     |     | 345 |     |     |     |     | 350 |     |     |
| Ser | Ser | Leu | Val | Gln | Thr | Gly | Ile | Ser | Thr | Asp | Thr | Ile | Tyr | Leu | Leu |
|     | 355 |     |     |     |     |     | 360 |     |     |     |     | 365 |     |     |     |
| Glu | Gly | Val | Cys | Lys | Asn | Asp | Pro | Lys | Leu | Ser | Glu | Asp | Ser | Val | Ser |
|     | 370 |     |     |     |     | 375 |     |     |     |     | 380 |     |     |     |     |
| Val | Leu | Val | Leu | Arg | Cys | Leu | Thr | Glu | Ala | Leu | Pro | Glu | Asn | Arg | Leu |
| 385 |     |     |     |     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |
| Ser | Arg | Leu | Leu | His | Lys | His | Arg | Phe | Ala | Glu | Ala | Glu | Ser | Phe | Ala |
|     |     |     |     | 405 |     |     |     | 410 |     |     |     |     |     | 415 |     |
| Ile | Gln | Phe | Gly | Leu | Asp | Val | Glu | Leu | Val | Tyr | Lys | Val | Lys | Ser | Asn |
|     | 420 |     |     |     |     |     | 425 |     |     |     |     |     | 430 |     |     |
| His | Ile | Leu | Glu | Lys | Leu | Ala | Leu | Ser | Ser | Val | Asp | Ala | Ser | Glu | Gln |
|     | 435 |     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     |
| Thr | Glu | Trp | Gln | Gln | Leu | Val | Asp | Asp | Ala | Lys | Glu | Asn | Leu | His | Lys |
|     | 450 |     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     |
| Ile | Gln | Asp | Asp | Glu | Phe | Val | Val | Asn | Tyr | Cys | Leu | Lys | Ala | Gln | Trp |
| 465 |     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Ile | Thr | Tyr | Glu | Thr | Gln | Glu | Met | Leu | Asn | Tyr | Ala | Lys | Thr | Arg |     |
|     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |     |     |
| Leu | Leu | Lys | Lys | Glu | Asp | Lys | Thr | Ala | Leu | Ile | Tyr | Ser | Asp | Gly | Leu |
|     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |     |     |
| Lys | Glu | Val | Leu | Arg | Ala | His | Ala | Lys | Leu | Thr | Thr | Phe | Tyr | Gly | Ala |
|     | 515 |     |     |     |     |     | 520 |     |     |     |     | 525 |     |     |     |
| Phe | Gly | Pro | Glu | Lys | Phe | Ser | Gly | Ser | Ser | Trp | Ile | Glu | Phe | Leu | Asn |
|     | 530 |     |     |     |     | 535 |     |     |     |     | 540 |     |     |     |     |
| Asn | Glu | Asp | Asp | Leu | Lys | Asp | Ile | Phe | Leu | Gln | Leu | Lys | Glu | Gly | Asn |
| 545 |     |     |     |     | 550 |     |     |     |     | 555 |     |     |     |     | 560 |
| Leu | Val | Cys | Ala | Gln | Tyr | Leu | Trp | Leu | Arg | His | Arg | Ala | Asn | Phe | Glu |
|     |     |     |     | 565 |     |     |     | 570 |     |     |     |     |     | 575 |     |
| Ser | Arg | Phe | Asp | Val | Lys | Met | Leu | Glu | Ser | Leu | Leu | Asn | Ser | Met | Ser |
|     |     |     | 580 |     |     |     |     | 585 |     |     |     |     | 590 |     |     |
| Ala | Ser | Val | Ser | Leu | Gln | Lys | Leu | Cys | Pro | Trp | Phe | Lys | Asn | Asp | Val |
|     |     |     | 595 |     |     |     | 600 |     |     |     |     | 605 |     |     |     |
| Ile | Pro | Phe | Val | Arg | Arg | Thr | Val | Pro | Glu | Gly | Gln | Ile | Ile | Leu | Ala |
|     | 610 |     |     |     |     | 615 |     |     |     |     | 620 |     |     |     |     |
| Lys | Trp | Leu | Glu | Gln | Ala | Arg | Asn | Leu | Glu | Leu | Thr | Asp | Lys | Ala |     |
| 625 |     |     |     |     | 630 |     |     |     | 635 |     |     |     |     | 640 |     |
| Asn | Trp | Pro | Glu | Asn | Gly | Leu | Gln | Leu | Ala | Glu | Ile | Phe | Phe | Thr | Ala |
|     |     |     |     | 645 |     |     |     | 650 |     |     |     |     |     | 655 |     |
| Glu | Lys | Thr | Asp | Glu | Leu | Gly | Leu | Ala | Ser | Ser | Trp | His | Trp | Ile | Ser |
|     |     |     | 660 |     |     |     | 665 |     |     |     |     | 670 |     |     |     |
| Leu | Lys | Asp | Tyr | Gln | Asn | Thr | Glu | Glu | Val | Cys | Gln | Leu | Arg | Thr | Leu |
|     |     | 675 |     |     |     |     | 680 |     |     |     |     | 685 |     |     |     |
| Val | Asn | Asn | Leu | Arg | Glu | Leu | Ile | Thr | Leu | His | Arg | Lys | Tyr | Asn | Cys |
|     | 690 |     |     |     |     | 695 |     |     |     |     | 700 |     |     |     |     |

Lys Leu Ala Leu Ser Asp Phe Glu Lys Glu Asn Thr Thr Thr Ile Val  
 705 710 715 720  
 Phe Arg Met Phe Asp Lys Val Leu Ala Pro Glu Leu Ile Pro Ser Ile  
 725 730 735  
 Leu Glu Lys Phe Ile Arg Val Tyr Met Arg Glu His Asp Leu Gln Glu  
 740 745 750  
 Glu Glu Leu Leu Leu Tyr Ile Glu Asp Leu Leu Asn Arg Cys Ser  
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 Ser Lys Ser Thr Ser Leu Phe Glu Thr Ala Trp Glu Ala Lys Ala Met  
 770 775 780  
 Ala Val Ile Ala Cys Leu Ser Asp Thr Asp Leu Ile Phe Asp Ala Val  
 785 790 795 800  
 Leu Lys Ile Met Tyr Ala Ala Val Val Pro Trp Ser Ala Ala Val Glu  
 805 810 815  
 Gln Leu Val Lys Gln His Leu Glu Met Asp His Pro Lys Val Lys Leu  
 820 825 830  
 Leu Gln Glu Ser Tyr Lys Leu Met Glu Met Lys Lys Leu Leu Arg Gly  
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 Tyr Gly Ile Arg Glu Val Asn Leu Leu Asn Lys Glu Ile Met Arg Val  
 850 855 860  
 Val Arg Tyr Ile Leu Lys Gln Asp Val Pro Ser Ser Leu Glu Asp Ala  
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 Leu Leu Leu Lys Ser Leu Pro Pro Ala Glu Ala Glu Lys Thr Ala Glu  
 915 920 925  
 Arg Val Ile Ile Trp Ala Arg Leu Ala Leu Gln Glu Glu Pro Asp His  
 930 935 940  
 Ser Lys Glu Gly Lys Ala Trp Arg Met Ser Val Ala Lys Thr Ser Val  
 945 950 955 960  
 Asp Ile Leu Lys Ile Leu Cys Asp Ile Gln Lys Asp Asn Leu Gln Lys  
 965 970 975  
 Lys Asp Glu Cys Glu Glu Met Leu Lys Leu Phe Lys Glu Val Ala Ser  
 980 985 990  
 Leu Gln Glu Asn Phe Glu Val Phe Leu Ser Phe Glu Asp Tyr Ser Asn  
 995 1000 1005  
 Ser Ser Leu Val Ala Asp Leu Arg Glu Gln His Ile Lys Ala His Glu  
 1010 1015 1020  
 Val Ala Gln Ala Lys His Lys Pro Gly Ser Thr Pro Glu Pro Ile Ala  
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 Ala Glu Val Arg Ser Pro Ser Met Glu Ser Lys Leu His Arg Gln Ala  
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 Leu Ala Leu Gln Met Ser Lys Gln Glu Leu Glu Ala Glu Leu Thr Leu  
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 Arg Ala Leu Lys Asp Gly Asn Ile Lys Thr Ala Leu Lys Lys Cys Ser  
 1075 1080 1085  
 Asp Leu Phe Lys Tyr His Cys Asn Ala Asp Thr Gly Lys Leu Leu Phe  
 1090 1095 1100  
 Leu Thr Cys Gln Lys Leu Cys Gln Met Leu Ala Asp Asn Val Pro Val  
 1105 1110 1115 1120  
 Thr Val Pro Val Gly Leu Asn Leu Pro Ser Met Ile His Asp Leu Ala  
 1125 1130 1135

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Ser Gln Ala Ala Thr Ile Cys Ser Pro Asp Phe Leu Leu Asp Ala Leu  
 1140 1145 1150  
 Glu Leu Cys Lys His Thr Leu Met Ala Val Glu Leu Ser Arg Gln Cys  
 1155 1160 1165  
 Gln Met Asp Asp Cys Gly Ile Leu Met Lys Ala Ser Phe Gly Thr His  
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 Lys Asp Pro Tyr Glu Glu Trp Ser Tyr Ser Asp Phe Phe Ser Glu Asp  
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 Gly Ile Val Leu Glu Ser Gln Met Val Leu Pro Val Ile Tyr Glu Leu  
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 Ile Ser Ser Leu Val Pro Leu Ala Glu Ser Lys Arg Tyr Pro Leu Glu  
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 Ser Thr Ser Leu Pro Tyr Cys Ser Leu Asn Glu Gly Asp Gly Leu Val  
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 Ser Ser Gln Trp Glu Leu Ala Leu Arg Phe Val Val Gly Ser Phe Gly  
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 Thr Cys Leu Gln His Ser Val Ser Asn Phe Met Asn Ala Thr Leu Ser  
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 Glu Lys Leu Phe Gly Glu Thr Thr Leu Val Lys Ser Arg His Val Val  
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 Met Glu Leu Lys Glu Lys Ala Val Ile Phe Ile Arg Glu Asn Ala Thr  
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 Glu Met Gly Leu Lys Phe Arg Glu Leu Ser Thr Asp Ala Gln Trp Gly  
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 Ile Arg Leu Gly Lys Leu Gly Ile Ser Phe Gln Pro Val Phe Arg Gln  
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 His Phe Leu Thr Lys Lys Asp Leu Ile Lys Ala Leu Val Glu Asn Ile  
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 Asp Met Asp Thr Ser Leu Ile Leu Glu Tyr Cys Ser Thr Phe Gln Leu  
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 Asp Cys Asp Ala Val Leu Gln Leu Phe Ile Glu Thr Leu Leu His Asn  
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 Thr Asn Ala Gly Gln Gly Gln Gly Asp Ala Ser Met Asp Ser Ala Lys  
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 Arg Arg His Pro Lys Leu Leu Ala Lys Ala Leu Glu Met Val Pro Leu  
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 Lys Leu Asp Pro Tyr Asp Tyr Glu Met Ile Glu Val Val Leu Lys Val  
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 Ile Glu Arg Ala Asp Glu Lys Ile Thr Asn Ile Asn Ile Asn Gln Ala  
 1540 1545 1550  
 Leu Ser Ile Leu Lys His Leu Lys Ser Tyr Arg Arg Ile Ser Pro Pro  
 1555 1560 1565

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Val  | Asp  | Leu  | Glu  | Tyr  | Gln  | Tyr  | Met  | Leu  | Glu  | His  | Val  | Ile  | Thr  | Leu  | Pro  |  |
|      | 1570 |      |      |      |      |      | 1575 |      |      |      | 1580 |      |      |      |      |  |
| Ser  | Ala  | Ala  | Gln  | Thr  | Arg  | Leu  | Pro  | Phe  | His  | Leu  | Ile  | Phe  | Phe  | Gly  | Thr  |  |
| 1585 |      |      |      |      | 1590 |      |      |      |      | 1595 |      |      |      |      | 1600 |  |
| Ala  | Gln  | Asn  | Phe  | Trp  | Lys  | Ile  | Leu  | Ser  | Thr  | Glu  | Leu  | Ser  | Glu  | Glu  | Ser  |  |
|      |      |      |      | 1605 |      |      |      |      | 1610 |      |      |      |      | 1615 |      |  |
| Phe  | Pro  | Thr  | Leu  | Leu  | Leu  | Ile  | Ser  | Lys  | Leu  | Met  | Lys  | Phe  | Ser  | Leu  | Asp  |  |
|      |      |      | 1620 |      |      |      |      | 1625 |      |      |      |      | 1630 |      |      |  |
| Thr  | Leu  | Tyr  | Val  | Ser  | Thr  | Ala  | Lys  | His  | Val  | Phe  | Glu  | Lys  | Lys  | Leu  | Lys  |  |
|      | 1635 |      |      |      |      |      | 1640 |      |      |      |      | 1645 |      |      |      |  |
| Pro  | Lys  | Leu  | Leu  | Lys  | Leu  | Thr  | Gln  | Ala  | Lys  | Ser  | Ser  | Thr  | Leu  | Ile  | Asn  |  |
|      | 1650 |      |      |      |      |      | 1655 |      |      | 1660 |      |      |      |      |      |  |
| Lys  | Glu  | Ile  | Thr  | Lys  | Ile  | Thr  | Gln  | Thr  | Ile  | Glu  | Ser  | Cys  | Leu  | Leu  | Ser  |  |
| 1665 |      |      |      |      | 1670 |      |      |      |      | 1675 |      |      |      |      | 1680 |  |
| Ile  | Val  | Asn  | Pro  | Glu  | Trp  | Ala  | Val  | Ala  | Ile  | Ala  | Ile  | Ser  | Leu  | Ala  | Gln  |  |
|      |      |      |      | 1685 |      |      |      | 1690 |      |      |      |      |      | 1695 |      |  |
| Asp  | Ile  | Pro  | Glu  | Gly  | Ser  | Phe  | Lys  | Ile  | Ser  | Ala  | Leu  | Lys  | Phe  | Cys  | Leu  |  |
|      |      | 1700 |      |      |      |      |      | 1705 |      |      |      |      | 1710 |      |      |  |
| Tyr  | Leu  | Ala  | Glu  | Arg  | Trp  | Leu  | Gln  | Asn  | Ile  | Pro  | Ser  | Gln  | Asp  | Glu  | Lys  |  |
|      | 1715 |      |      |      |      |      | 1720 |      |      |      |      | 1725 |      |      |      |  |
| Arg  | Glu  | Lys  | Ala  | Glu  | Ala  | Leu  | Leu  | Lys  | Lys  | Leu  | His  | Ile  | Gln  | Tyr  | Arg  |  |
|      | 1730 |      |      |      |      | 1735 |      |      |      | 1740 |      |      |      |      |      |  |
| Arg  | Ser  | Gly  | Thr  | Glu  | Ala  | Val  | Leu  | Ile  | Ala  | His  | Lys  | Leu  | Asn  | Thr  | Glu  |  |
| 1745 |      |      |      |      | 1750 |      |      |      |      | 1755 |      |      |      |      | 1760 |  |
| Glu  | Tyr  | Leu  | Arg  | Val  | Ile  | Gly  | Lys  | Pro  | Ala  | His  | Leu  | Ile  | Val  | Ser  | Leu  |  |
|      |      |      | 1765 |      |      |      |      |      | 1770 |      |      |      |      | 1775 |      |  |
| Tyr  | Glu  | His  | Pro  | Ser  | Ile  | Asn  | Gln  | Arg  | Ile  | Gln  | Asn  | Ser  | Ser  | Gly  | Thr  |  |
|      |      |      | 1780 |      |      |      |      | 1785 |      |      |      |      | 1790 |      |      |  |
| Asp  | Tyr  | Pro  | Asp  | Ile  | His  | Ala  | Ala  | Ala  | Lys  | Glu  | Ile  | Ala  | Glu  | Val  | Asn  |  |
|      | 1795 |      |      |      |      |      | 1800 |      |      |      |      | 1805 |      |      |      |  |
| Glu  | Ile  | Asn  | Leu  | Glu  | Lys  | Val  | Trp  | Asp  | Met  | Leu  | Leu  | Glu  | Lys  | Trp  | Leu  |  |
|      | 1810 |      |      |      |      | 1815 |      |      |      |      | 1820 |      |      |      |      |  |
| Cys  | Pro  | Ser  | Thr  | Lys  | Pro  | Gly  | Glu  | Lys  | Pro  | Ser  | Glu  | Leu  | Phe  | Glu  | Leu  |  |
| 1825 |      |      |      |      | 1830 |      |      |      |      | 1835 |      |      |      |      | 1840 |  |
| Gln  | Glu  | Asp  | Glu  | Ala  | Leu  | Arg  | Arg  | Val  | Gln  | Tyr  | Leu  | Leu  | Leu  | Ser  | Arg  |  |
|      |      |      |      | 1845 |      |      |      |      | 1850 |      |      |      |      | 1855 |      |  |
| Pro  | Ile  | Asp  | Tyr  | Ser  | Ser  | Arg  | Met  | Leu  | Phe  | Val  | Phe  | Ala  | Thr  | Ser  | Thr  |  |
|      |      | 1860 |      |      |      |      |      | 1865 |      |      |      |      | 1870 |      |      |  |
| Thr  | Thr  | Thr  | Leu  | Gly  | Met  | His  | Gln  | Leu  | Thr  | Phe  | Ala  | His  | Arg  | Thr  | Arg  |  |
|      |      | 1875 |      |      |      |      | 1880 |      |      |      |      | 1885 |      |      |      |  |
| Ala  | Leu  | Gln  | Cys  | Leu  | Phe  | Tyr  | Leu  | Ala  | Asp  | Lys  | Glu  | Thr  | Ile  | Glu  | Ser  |  |
|      | 1890 |      |      |      |      | 1895 |      |      |      |      |      |      |      |      |      |  |

Ala Ile Ser Ser Ile His Ser Leu Trp Gln Val Pro Tyr Phe Ser Lys  
 2005 2010 2015  
 Ala Trp Gln Arg Val Ile Gln Ile Pro Leu Leu Ser Ala Ser Cys Pro  
 2020 2025 2030  
 Leu Ser Pro Asp Gln Leu Ser Asp Cys Ser Glu Ser Leu Ile Ala Val  
 2035 2040 2045  
 Leu Glu Cys Pro Val Ser Gly Asp Leu Asp Leu Ile Gly Val Ala Arg  
 2050 2055 2060  
 Gln Tyr Ile Gln Leu Glu Leu Pro Ala Phe Ala Leu Ala Cys Leu Met  
 2065 2070 2075 2080  
 Leu Met Pro His Ser Glu Lys Arg His Gln Gln Ile Lys Asn Phe Leu  
 2085 2090 2095  
 Gly Ser Cys Asp Pro Gln Val Ile Leu Lys Gln Leu Glu Glu His Met  
 2100 2105 2110  
 Asn Thr Gly Gln Leu Ala Gly Phe Ser His Gln Ile Arg Ser Leu Ile  
 2115 2120 2125  
 Leu Asn Asn Ile Ile Asn Lys Lys Glu Phe Gly Ile Leu Ala Lys Thr  
 2130 2135 2140  
 Lys Tyr Phe Gln Met Leu Lys Met His Ala Met Asn Thr Asn Asn Ile  
 2145 2150 2155 2160  
 Thr Glu Leu Val Asn Tyr Leu Ala Asn Asp Leu Ser Leu Asp Glu Ala  
 2165 2170 2175  
 Ser Val Leu Ile Thr Glu Tyr Ser Lys His Cys Gly Lys Pro Val Pro  
 2180 2185 2190  
 Pro Asp Thr Ala Pro Cys Glu Ile Leu Lys Met Phe Leu Ser Gly Leu  
 2195 2200 2205  
 Ser

<210> 1904  
 <211> 197  
 <212> PRT  
 <213> Homo sapiens

<400> 1904  
 Met Gln Arg Ala Ser Arg Leu Lys Arg Glu Leu His Met Leu Ala Thr  
 1 5 10 15  
 Glu Pro Pro Pro Gly Ile Thr Cys Trp Gln Asp Lys Asp Gln Met Asp  
 20 25 30  
 Asp Leu Arg Ala Gln Ile Leu Gly Gly Ala Asn Thr Pro Tyr Glu Lys  
 35 40 45  
 Gly Val Phe Lys Leu Glu Val Ile Ile Pro Glu Arg Tyr Pro Phe Glu  
 50 55 60  
 Pro Pro Gln Ile Arg Phe Leu Thr Pro Ile Tyr His Pro Asn Ile Asp  
 65 70 75 80  
 Ser Ala Gly Arg Ile Cys Leu Asp Val Leu Lys Leu Pro Pro Lys Gly  
 85 90 95  
 Ala Trp Arg Pro Ser Leu Asn Ile Ala Thr Val Leu Thr Ser Ile Gln  
 100 105 110  
 Leu Leu Met Ser Glu Pro Asn Pro Asp Asp Pro Leu Met Ala Asp Ile  
 115 120 125  
 Ser Ser Glu Phe Lys Tyr Asn Lys Pro Ala Phe Leu Lys Asn Ala Arg  
 130 135 140



<400> 1906  
Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Ile Ala Glu Ile Val Val  
1 5 10 15  
His Ile Arg Asn Lys Leu Leu Thr Gly Ala Asp Gly Lys Asn Leu Ser  
20 25 30

Lys Ser Asp Phe Leu Pro Asn Pro Lys Pro Glu Val Leu Tyr Met Ile  
 35 40 45  
 Tyr Met Arg Ala Leu Gln Leu Val Tyr Gly Val Arg Leu Glu His Phe  
 50 55 60  
 Tyr Met Met Pro Val Asn Ile Glu Val Met Tyr Pro His Ile Met Glu  
 65 70 75 80  
 Gly Phe Leu Pro Val Ser Asn Leu Phe Phe His Leu Asp Ser Phe Met  
 85 90 95  
 Pro Ile Cys Arg Val Asn Asp Phe Glu Ile Ala Asp Ile Leu Tyr Pro  
 100 105 110  
 Lys Ala Asn Arg Thr Ser Arg Phe Leu Ser Gly Ile Ile Asn Phe Ile  
 115 120 125  
 His Phe Arg Glu Thr Cys Leu Glu Lys Tyr Glu Glu Phe Leu Leu Gln  
 130 135 140  
 Asn Lys Ser Ser Val Asp Lys Ile Gln Gln Leu Ser Asn Ala His Gln  
 145 150 155 160  
 Glu Ala Leu Met Lys Leu Glu Lys Leu Asn Ser Val Pro Val Glu Glu  
 165 170 175  
 Gln Glu Glu Phe Lys Gln Leu Lys Asp Asp Ile Gln Glu Leu Gln His  
 180 185 190  
 Leu Leu Asn Gln Asp Phe Arg Gln Lys Thr Thr Leu Leu Gln Glu Arg  
 195 200 205  
 Tyr Thr Lys Met Lys Ser Asp Phe Ser Glu Lys Thr Lys His Val Asn  
 210 215 220  
 Glu Leu Lys Leu Ser Val Val Ser Leu Lys Glu Val Gln Asp Ser Leu  
 225 230 235 240  
 Lys Ser Lys Ile Val Asp Ser Pro Glu Lys Leu Lys Asn Tyr Lys Glu  
 245 250 255  
 Lys Met Lys Asp Thr Val Gln Lys Leu Arg Ser Ala Arg Glu Glu Val  
 260 265 270  
 Met Glu Lys Tyr Asp Ile Tyr Arg Asp Ser Val Asp Cys Leu Pro Ser  
 275 280 285  
 Cys Gln Leu Glu Val Gln Leu Tyr Gln Lys Lys Ser Gln Asp Leu Ala  
 290 295 300  
 Asp Asn Arg Glu Lys Leu Ser Ser Ile Leu Lys Glu Ser Leu Asn Leu  
 305 310 315 320  
 Glu Gly Gln Ile Asp Ser Asp Ser Ser Glu Leu Lys Lys Leu Lys Thr  
 325 330 335  
 Glu Glu Asn Ser Leu Ile Arg Leu Met Thr Leu Lys Lys Glu Arg Leu  
 340 345 350  
 Ala Thr Met Gln Phe Lys Ile Asn Lys Lys Gln Glu Asp Val Lys Gln  
 355 360 365  
 Tyr Lys Arg Thr Met Ile Glu Asp Cys Asn Lys Val Gln Glu Lys Arg  
 370 375 380  
 Asp Ala Val Cys Glu Gln Val Thr Ala Ile Asn Gln Asp Ile His Lys  
 385 390 395 400  
 Ile Lys Ser Gly Ile Gln Gln Leu Arg Asp Ala Glu Lys Arg Glu Lys  
 405 410 415  
 Leu Lys Ser Gln Glu Ile Leu Val Asp Leu Lys Ser Ala Leu Glu Lys  
 420 425 430  
 Tyr His Glu Gly Ile Glu Lys Thr Thr Glu Glu Cys Cys Thr Arg Ile  
 435 440 445  
 Gly Gly Lys Thr Ala Glu Leu Lys Arg Arg Met Phe Lys Met Pro Pro  
 450 455 460

100  
 110  
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<210> 1907  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<400> 1907

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Met Ala Glu Pro Trp Gly Asn Glu Leu Ala Ser Ala Ala Ala Arg Gly
 1      5      10      15
Asp Leu Glu Gln Leu Thr Ser Leu Leu Gln Asn Asn Val Asn Val Asn
      20      25      30
Ala Gln Asn Gly Phe Gly Arg Thr Ala Leu Gln Val Met Lys Leu Gly
      35      40      45
Asn Pro Glu Ile Ala Arg Arg Leu Leu Leu Arg Gly Ala Asn Pro Asp
      50      55      60
Leu Lys Asp Arg Thr Gly Phe Ala Val Ile His Asp Ala Ala Arg Ala
      65      70      75      80
Gly Phe Leu Asp Thr Leu Gln Thr Leu Leu Glu Phe Gln Ala Asp Val
      85      90      95
Asn Ile Glu Asp Asn Glu Gly Asn Leu Pro Leu His Leu Ala Ala Lys
      100     105     110
Glu Gly His Leu Arg Val Val Glu Phe Leu Val Lys His Thr Ala Ser
      115     120     125
Asn Val Gly His Arg Asn His Lys Gly Asp Thr Ala Cys Asp Leu Ala
      130     135     140
Arg Leu Tyr Gly Arg Asn Glu Val Val Ser Leu Met Gln Ala Asn Gly
      145     150     155     160
Ala Gly Gly Ala Thr Asn Leu Gln
      165
  
```

<210> 1908  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 1908

```

Met Glu Pro Ala Ala Gly Ser Ser Met Glu Pro Ser Ala Asp Trp Leu
 1      5      10      15
Ala Thr Ala Ala Ala Arg Gly Arg Val Glu Glu Val Arg Ala Leu Leu
      20      25      30
Glu Ala Gly Ala Leu Pro Asn Ala Pro Asn Ser Tyr Gly Arg Arg Pro
      35      40      45
Ile Gln Val Met Met Met Gly Ser Ala Arg Val Ala Glu Leu Leu Leu
      50      55      60
Leu His Gly Ala Glu Pro Asn Cys Ala Asp Pro Ala Thr Leu Thr Arg
      65      70      75      80
Pro Val His Asp Ala Ala Arg Glu Gly Phe Leu Asp Thr Leu Val Val
      85      90      95
Leu His Arg Ala Gly Ala Arg Leu Asp Val Arg Asp Ala Trp Gly Arg
      100     105     110
Leu Pro Val Asp Leu Ala Glu Glu Leu Gly His Arg Asp Val Ala Arg
      115     120     125
  
```

Tyr Leu Arg Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg  
 130 135 140  
 Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp  
 145 150 155

<210> 1909  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1909  
 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val  
 1 5 10 15  
 Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser  
 20 25 30  
 Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp  
 35 40 45  
 Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile  
 50 55 60  
 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala  
 65 70 75 80  
 Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys  
 85 90 95  
 Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys  
 100 105 110  
 Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr  
 115 120 125

<210> 1910  
 <211> 931  
 <212> DNA  
 <213> Homo sapiens

<400> 1910  
 caacagtcag aggtcgcgca ggcgctggta ccccgttggt ccgcgcgttg ctgcgttggtg 60  
 aggggtgtca gctcagtgca tcccaggcag ctcttagtgt ggagcagtga actgtgtgtg 120  
 gttccttcta cttggggatc atgcagagag cttcrcgtct gaagagagag ctgcacatgt 180  
 tagccacaga gccaccccca ggcacacat gttggcaaga taaagaccaa atggatgacc 240  
 tgcgagctca aatattaggt ggagccaaca caccttatga gaaaggtgtt ttttaagctag 300  
 aagttatcat tcctgagagg taccattttg aacctcctca gatccgattt ctactccaa 360  
 tttatcatcc aaacattgat tctgctggaa ggatttgtct ggatgttctc aaattgccac 420  
 caaaaggtgc ttggagacca tccctcaaca tcgcaactgt gttgacctct attcagctgc 480  
 tcatgtcaga acccaaccct gatgaccgc tcatggctga catatcctca gaatttaa 540  
 ataataagcc agccttctc aagaatgcca gacagtggac agagaagcat gcaagacaga 600  
 aacaaaaggc tgatgaggaa gagatgcttg ataactacc agaggctggg gactccagag 660  
 tacacaactc aacacagaaa aggaaggcca gtcagctagt aggcatagaa aagaaatttc 720  
 atcctgatgt ttaggggact tgtcctgggt catcttagtt aatgtgttct ttgccaaagg 780  
 gatctaagtt gcctaccttg aatTTTTTTT taaatatatt tgatgacata atTTTTTgtg 840  
 agttttattta tcttgtacat atgtattttg aaatctttta aacctgaaaa ataaatagtc 900  
 atttaatgtt gaaaaaaaaa aaaaaaaaaa a 931

<210> 1911

<211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1911  
 gctaaaggtg accccaagaa accaaaag

27

<210> 1912  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1912  
 ctattaactc gagggagaca gataaacagt ttcttta

37

<210> 1913  
 <211> 207  
 <212> PRT  
 <213> Homo sapiens

<400> 1913  
 Met Gln His His His His His Ala Lys Gly Asp Pro Lys Lys Pro  
 1 5 10 15  
 Lys Gly Lys Met Ser Ala Tyr Ala Phe Val Gln Thr Cys Arg Glu  
 20 25 30  
 Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu Phe  
 35 40 45  
 Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Gly Lys Glu Lys  
 50 55 60  
 Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp Arg  
 65 70 75 80  
 Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp  
 85 90 95  
 Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser  
 100 105 110  
 Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly  
 115 120 125  
 Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser  
 130 135 140  
 Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr  
 145 150 155 160  
 Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala  
 165 170 175  
 Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu  
 180 185 190  
 Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu  
 195 200 205

1911-1913

<210> 1914  
 <211> 624  
 <212> DNA  
 <213> Homo sapiens

<400> 1914  
 atgcagcatc accaccatca ccacgctaaa ggtgacccca agaaaccaa gggcaagatg 60  
 tccgcttatg ctttctttgt gcagacatgc agagaagaac ataagaagaa aaaccagag 120  
 gtccctgtca attttgcgga attttccaag aagtgtcttg agaggtggaa gacgatgtcc 180  
 gggaaagaga aatctaaatt tgatgaaatg gcaaaggcag ataaagtgcg ctatgatcgg 240  
 gaaatgaagg attatggacc agctaaggga ggcaagaaga agaaggatcc taatgctccc 300  
 aaaaggccac cgtctggatt cttcctgttc tgttcagaat tccgccccaa gatcaaattcc 360  
 acaaaccctg gcattctctat tggagacgtg gcaaaaaagc tgggtgagat gtggaataat 420  
 tttaaagaca gtgaaaagca gccttacatc actaaggcgg caaagctgaa ggagaagtat 480  
 gagaaggatg ttgctgacta taagtcgaaa ggaaagtgtg atggtgcaaa ggggtccagct 540  
 aaagttgccc ggaaaaagggt ggaagaggaa gatgaagaag aggaggagga agaagaggag 600  
 gaggaggagg aggaggatga ataa 624

<210> 1915  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1915  
 gtgacgatgg aggagctgcg ggagatgg 28

<210> 1916  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1916  
 cgcctaactc gagtcactaa cagctgggag 30

<210> 1917  
 <211> 401  
 <212> PRT  
 <213> Homo sapiens

<400> 1917  
 Met Gln His His His His His Val Thr Met Glu Glu Leu Arg Glu  
 1 5 10 15  
 Met Asp Cys Ser Val Leu Lys Arg Leu Met Asn Arg Asp Glu Asn Gly  
 20 25 30  
 Gly Gly Ala Gly Gly Ser Gly Ser His Gly Thr Leu Gly Leu Pro Ser  
 35 40 45  
 Gly Gly Lys Cys Leu Leu Leu Asp Cys Arg Pro Phe Leu Ala His Ser

50 55 60  
 Ala Gly Tyr Ile Leu Gly Ser Val Asn Val Arg Cys Asn Thr Ile Val  
 65 70 75 80  
 Arg Arg Arg Ala Lys Gly Ser Val Ser Leu Glu Gln Ile Leu Pro Ala  
 85 90 95  
 Glu Glu Glu Val Arg Ala Arg Leu Arg Ser Gly Leu Tyr Ser Ala Val  
 100 105 110  
 Ile Val Tyr Asp Glu Arg Ser Pro Arg Ala Glu Ser Leu Arg Glu Asp  
 115 120 125  
 Ser Thr Val Ser Leu Val Val Gln Ala Leu Arg Arg Asn Ala Glu Arg  
 130 135 140  
 Thr Asp Ile Cys Leu Leu Lys Gly Gly Tyr Glu Arg Phe Ser Ser Glu  
 145 150 155 160  
 Tyr Pro Glu Phe Cys Ser Lys Thr Lys Ala Leu Ala Ala Ile Pro Pro  
 165 170 175  
 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser  
 180 185 190  
 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro  
 195 200 205  
 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu  
 210 215 220  
 Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro  
 225 230 235 240  
 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp  
 245 250 255  
 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr  
 260 265 270  
 Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln  
 275 280 285  
 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met  
 290 295 300  
 Lys Lys Arg Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Arg  
 305 310 315 320  
 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln  
 325 330 335  
 Phe Glu Ser Gln Val Leu Ala Thr Ser Cys Ala Ala Glu Ala Ala Ser  
 340 345 350  
 Pro Ser Gly Pro Leu Arg Glu Arg Gly Lys Thr Pro Ala Thr Pro Thr  
 355 360 365  
 Ser Gln Phe Val Phe Ser Phe Pro Val Ser Val Gly Val His Ser Ala  
 370 375 380  
 Pro Ser Ser Leu Pro Tyr Leu His Ser Pro Ile Thr Thr Ser Pro Ser  
 385 390 395 400  
 Cys

&lt;210&gt; 1918

&lt;211&gt; 1209

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1918

atgcagcatc accaccatca ccacgtgacg atggaggagc tgcgggagat ggactgcagt 60

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gtgctcaaaa ggctgatgaa ccgggacgag aatggcggcg gcgcggggcg cagcgggcagc 120
cacggcaccc tggggctgcc gagcggcggc aagtgcctgc tgctggactg cagaccgttc 180
ctggcgacaca gcgcggggcta catcctaggt tcggtcaacg tgcgctgtaa caccatcgtg 240
cggcggcggg ctaagggctc cgtgagcctg gagcagatcc tgcccgcga ggaggaggta 300
cgcgcccgtc tgcgctccgg cctctactcg gcggtcatcg tctacgacga gcgcagcccg 360
cgcgccgaga gcctccgcga ggacagcacc gtgtcgctgg tggcgcaggc gctgcgccgc 420
aacgccgagc gcaccgacat ctgcctgctc aaaggcggct atgagagggt ttcctccgag 480
taccagaat tctgttctaa aaccaaggcc ctggcagcca tcccaccccc ggttcccccc 540
agtgccacag agcccttgga cctgggctgc agctcctgtg ggacccccact acacgaccag 600
gggggtcctg tggagatcct tcccttcctc tacctcggca gtgcctacca tgctgcccgg 660
agagacatgc tggacgcctt gggcatcacg gctctgttga atgtctctc ggactgcca 720
aaccactttg aaggacacta tcagtacaag tgcacccag tggaagataa ccacaaggcc 780
gacatcagct cctggttcat ggaagccata gagtacatcg atgcggtgaa ggactgccgt 840
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ggcaagaccc ccgccacccc cacctcgagc ttcgtcttca gctttccggt ctccgtgggc 1140
gtgcactcgg cccccagcag cctgcctac ctgcacagcc ccatcaccac ctctcccagc 1200
tgttagtga 1209

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<210> 1919

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1919

cggtgccacg cccatggacc ttc

23

<210> 1920

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1920

ctgagaattc attaaacttg tggttgctct tcacc

35

<210> 1921

<211> 167

<212> PRT

<213> Homo sapiens

<400> 1921

```

Met Gln His His His His His Arg Cys His Ala His Gly Pro Ser
  1           5           10          15
Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly
          20          25          30
Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg

```



```
<210> 1922
<211> 507
<212> DNA
<213> Homo sapiens
```

```
<210> 1923
<211> 3192
<212> DNA
<213> Homo sapiens
```

|             |             |             |            |            |            |     |
|-------------|-------------|-------------|------------|------------|------------|-----|
| <400> 1923  |             |             |            |            |            |     |
| cccacgcgtc  | cggcgggtcgc | cgcggggattt | ggagctgcct | agcctcgcg  | tgcgtttggc | 60  |
| agcatgtaag  | cagctgtttg  | ccaagaacc   | aggtcactgc | taagaaagg  | tgccttcggg | 120 |
| agaagagtgt  | ccagaggata  | ccaatgccag  | atgcatctgg | agttacactc | agcactcgca | 180 |
| gtatgagaca  | ttgtgtgcca  | gcatctcttt  | ccttctggca | aagactgtag | ctctccaggt | 240 |
| aggaggatcc  | tggaagctgt  | gagcaccagg  | agccttgcca | gaggaggatg | gggccagata | 300 |
| tgaactctct  | accatgaaca  | tggttctcgg  | cttatgaagg | aattttaagt | aaaacagtta | 360 |
| tttaatttcc  | acatatcaaa  | gtcaaaagcc  | ttctgtgtga | agtgccagt  | attaccctc  | 420 |
| cacaggagtt  | atcaggattt  | ttctggcacc  | aagtttaatt | cttcttcgta | cttctggtag | 480 |
| tgacagatct  | gcagggcaga  | tttatctgtt  | gaatgctctt | gggcaggaaa | accatgtaaa | 540 |
| acctctggaa  | gcagcatcag  | gacagcagag  | cagagccccc | gtcctcactg | ctcacttgca | 600 |
| cagaaactcc  | atctggactc  | ggatgctttt  | actgaagacc | catctagcct | caatcatctt | 660 |
| tagaagctcat | cattcttggg  | gagacctggc  | gtttgcagtt | gcctcctgtg | gcggtgtttt | 720 |
| tctgtcattc  | tgttcccaag  | ccttctattc  | aagcggttga | aggggtgtga | ctttggaatg | 780 |

```

gggtttgctg ttcttcggga acttgcttcc tttccctggc tgggtgctgc aggaaggacc 840
atctgaaggc tgcaatttgt tcttagggag gcaggtgctg gcctggcctg gatcttccac 900
catgttctctg ttgctgcctt ttgatagcct gattgtcaac cttctgggca tctccctgac 960
tgtctctctc accctccttc tcgttttcat catagtgcc a gccatttttg gagtctcctt 1020
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aatggagcga ggagccaagg agaagaacca ccagctttac aagccctaca ccaacggaat 1140
cattgcaaag gatccactt cactagaaga agagatcaaa gagattcgtc gaagtggtag 1200
tagtaaggct ctggacaaca ctccagagtt cgagctctct gacattttct acttttgccg 1260
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cccagaagga acctgcatca ataatacatc ggtgatgatg ttcaaaaagg gaagttttga 1920
aattggagcc acagtttacc ctgttgctat caagtatgac cctcaatttg gcgatgcctt 1980
ctggaacagc agcaaatacg ggatggtgac gtacctgctg cgaatgatga ccagctgggc 2040
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ccagtttgcg aatagggtga aatctgccat tgccaggcag ggaggacttg tggacctgct 2160
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tgaaaaaaa aa 3192

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<210> 1924
<211> 2048
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 787, 1453, 1521, 1727
<223> n = A,T,C or G

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<400> 1924
gccggaagcg cgcggagacc atgtagtgag accctcgca ggtctgagag tcaactggagc 60

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gctgctggtg ctcacccctcc tctgcagcct tggttccatc ggtgtgctgc gccggacagg 240  
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ggccatgggc ttcttcctgg tcctggtgat ggagcagatc acactggctt acaaggagca 480  
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cgtaccctag gaatatgggg acatggacat ggtgtcccat gccagatga taaacactga 1860  
gctgccaaaa cattttttta aatacacccg agggagccaa gggggaagg caatgcctac 1920  
ccccagcgtt atttttgggg agggagggct gtgcatagg acatatctt tagaatctat 1980  
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<210> 1925

<211> 456

<212> PRT

<213> Homo sapiens

<400> 1925

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20 25 30  
Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys  
35 40 45  
Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly  
50 55 60  
Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile  
65 70 75 80  
Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Glu Ile Lys Glu Ile Arg  
85 90 95  
Arg Ser Gly Ser Ser Lys Ala Leu Asp Asn Thr Pro Glu Phe Glu Leu



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1           5           10           15
Val Ala Ser Glu Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly
20           25           30
Ala Leu Val Leu Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Gly Ser
35           40           45
Ile Gly Val Leu Arg Arg Thr Gly Ala Asn His Glu Gly Ser Ala Ser
50           55           60
Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe
65           70           75           80
Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile
85           90           95
Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln
100          105          110
Glu Phe Ile Leu Ala Met Gly Phe Phe Leu Val Leu Val Met Glu Gln
115          120          125
Ile Thr Leu Ala Tyr Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu
130          135          140
Thr Arg Ala Leu Leu Gly Thr Val Asn Gly Gly Pro Gln His Trp His
145          150          155          160
Asp Gly Pro Gly Val Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser
165          170          175
Ala Leu Arg Ala Cys Val Leu Val Phe Ser Leu Ala Leu His Ser Val
180          185          190
Phe Glu Gly Leu Ala Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met
195          200          205
Glu Leu Cys Leu Ala Leu Leu His Lys Gly Ile Leu Ala Val Ser
210          215          220
Leu Ser Leu Arg Leu Leu Gln Ser His Leu Arg Ala Gln Val Val Ala
225          230          235          240
Gly Cys Gly Ile Leu Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu
245          250          255
Gly Ala Ala Leu Ala Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln
260          265          270
Ser Val Leu Glu Gly Met Ala Ala Gly Thr Phe Leu Tyr Ile Thr Phe
275          280          285
Leu Glu Ile Leu Pro Gln Glu Leu Ala Ser Ser Glu Gln Arg Ile Leu
290          295          300
Lys Val Ile Leu Leu Leu Ala Gly Phe Ala Leu Leu Thr Gly Leu Leu
305          310          315          320
Phe Ile Gln Ile

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&lt;210&gt; 1927

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1927

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Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp
1           5           10           15

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&lt;210&gt; 1928

<211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1928  
 Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu  
 1 5 10 15  
 Asp Leu Gly Ser  
 20

<210> 1929  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1929  
 Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu  
 1 5 10 15  
 Gln Pro Gln Val  
 20

<210> 1930  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 1930  
 Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala  
 1 5 10 15  
 Trp Phe Gly Val Asn Pro Gly Met  
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<210> 1931  
 <211> 1526  
 <212> DNA  
 <213> Homo sapiens

<400> 1931  
 actggaacat ttttacatga tgccagtgaa ctctgaagtc atgtatccac atttaaatgga 60  
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 ggtgaatgac tttgagactg ctgatattct atgtccaaaa gcaaaacgga caagtcggtt 180  
 ttttaagtggc attatcaact ttattcactt cagagaagca tgccgtgaaa cgtatatgga 240  
 atttcttttg caatataaat cctctgcgga caaaatgcaa cagttaaacg ccgcacacca 300  
 ggaggcatta atgaaactgg agagacttga ttctgttcca gttgaagagc aagaagagtt 360  
 caagcagctt tcagatggaa ttcaggagct acaacaatca ctaaatcagg attttcatca 420  
 aaaaacgata gtgctgcaag agggaaattc caaaaagaag tcaaataattt cagagaaaac 480  
 caagcgtttg aatgaactaa aattgttggt ggtttctttg aaagaaatac aagagagttt 540  
 gaaaacaaaa attgtggatt ctccagagaa gttaaagaat tataaagaaa aaatgaaaga 600  
 tacggtccag aagcttaaaa atgccagaca agaagtgggtg gagaaatatg aaatctatgg 660  
 agactcagtt gactgcctgc cttcatgtca gttggaagtg cagttatatc aaaagaaaat 720  
 acaggacctt tcagataata gggaaaaatt agccagtatc ttaaaggaga gcctgaactt 780

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<210> 1932
<211> 404
<212> PRT
<213> Homo sapiens
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|          |     |     |     |          |     |     |     |     |           |     |     |     |     |           |     |
|----------|-----|-----|-----|----------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|-----------|-----|
| Leu<br>1 | Glu | His | Phe | Tyr<br>5 | Met | Met | Pro | Val | Asn<br>10 | Ser | Glu | Val | Met | Tyr<br>15 | Pro |
| His      | Leu | Met | Glu | Gly      | Phe | Leu | Pro | Phe | Ser       | Asn | Leu | Val | Thr | His       | Leu |
|          |     |     | 20  |          |     |     |     | 25  |           |     |     |     | 30  |           |     |
| Asp      | Ser | Phe | Leu | Pro      | Ile | Cys | Arg | Val | Asn       | Asp | Phe | Glu | Thr | Ala       | Asp |
|          |     | 35  |     |          |     |     | 40  |     |           |     |     | 45  |     |           |     |
| Ile      | Leu | Cys | Pro | Lys      | Ala | Lys | Arg | Thr | Ser       | Arg | Phe | Leu | Ser | Gly       | Ile |
|          | 50  |     |     |          |     | 55  |     |     |           |     | 60  |     |     |           |     |
| Ile      | Asn | Phe | Ile | His      | Phe | Arg | Glu | Ala | Cys       | Arg | Glu | Thr | Tyr | Met       | Glu |
| 65       |     |     |     |          | 70  |     |     |     |           | 75  |     |     |     | 80        |     |
| Phe      | Leu | Trp | Gln | Tyr      | Lys | Ser | Ser | Ala | Asp       | Lys | Met | Gln | Gln | Leu       | Asn |
|          |     |     |     | 85       |     |     |     |     | 90        |     |     |     |     | 95        |     |
| Ala      | Ala | His | Gln | Glu      | Ala | Leu | Met | Lys | Leu       | Glu | Arg | Leu | Asp | Ser       | Val |
|          |     |     | 100 |          |     |     |     | 105 |           |     |     |     | 110 |           |     |
| Pro      | Val | Glu | Glu | Gln      | Glu | Glu | Phe | Lys | Gln       | Leu | Ser | Asp | Gly | Ile       | Gln |
|          |     | 115 |     |          |     |     | 120 |     |           |     |     | 125 |     |           |     |
| Glu      | Leu | Gln | Gln | Ser      | Leu | Asn | Gln | Asp | Phe       | His | Gln | Lys | Thr | Ile       | Val |
|          |     |     |     |          |     | 135 |     |     |           |     | 140 |     |     |           |     |
| Leu      | Gln | Glu | Gly | Asn      | Ser | Gln | Lys | Lys | Ser       | Asn | Ile | Ser | Glu | Lys       | Thr |
| 145      |     |     |     | 150      |     |     |     |     |           | 155 |     |     |     | 160       |     |
| Lys      | Arg | Leu | Asn | Glu      | Leu | Lys | Leu | Leu | Val       | Val | Ser | Leu | Lys | Glu       | Ile |
|          |     |     |     | 165      |     |     |     |     | 170       |     |     |     |     | 175       |     |
| Gln      | Glu | Ser | Leu | Lys      | Thr | Lys | Ile | Val | Asp       | Ser | Pro | Glu | Lys | Leu       | Lys |
|          |     |     | 180 |          |     |     |     | 185 |           |     |     |     | 190 |           |     |
| Asn      | Tyr | Lys | Glu | Lys      | Met | Lys | Asp | Thr | Val       | Gln | Lys | Leu | Lys | Asn       | Ala |
|          |     | 195 |     |          |     |     | 200 |     |           |     |     | 205 |     |           |     |
| Arg      | Gln | Glu | Val | Val      | Glu | Lys | Tyr | Glu | Ile       | Tyr | Gly | Asp | Ser | Val       | Asp |
|          | 210 |     |     |          |     | 215 |     |     |           |     | 220 |     |     |           |     |
| Cys      | Leu | Pro | Ser | Cys      | Gln | Leu | Glu | Val | Gln       | Leu | Tyr | Gln | Lys | Lys       | Ile |
| 225      |     |     |     | 230      |     |     |     |     |           | 235 |     |     |     | 240       |     |
| Gln      | Asp | Leu | Ser | Asp      | Asn | Arg | Glu | Lys | Leu       | Ala | Ser | Ile | Leu | Lys       | Glu |
|          |     |     |     | 245      |     |     |     |     | 250       |     |     |     | 255 |           |     |
| Ser      | Leu | Asn | Leu | Glu      | Asp | Gln | Ile | Glu | Ser       | Asp | Glu | Ser | Glu | Leu       | Lys |
|          |     |     | 260 |          |     |     |     | 265 |           |     |     |     | 270 |           |     |

Lys Leu Lys Thr Glu Glu Asn Ser Phe Lys Arg Leu Met Ile Val Lys  
           275                                  280                                  285  
 Lys Glu Lys Leu Ala Thr Ala Gln Phe Lys Ile Asn Lys Lys His Glu  
           290                                  295                                  300  
 Asp Val Lys Gln Tyr Lys Arg Thr Val Ile Glu Asp Cys Asn Lys Val  
 305                                  310                                  315                                  320  
 Gln Glu Lys Arg Gly Ala Val Tyr Glu Arg Val Thr Thr Ile Asn Gln  
                                   325                                  330                                  335  
 Glu Ile Gln Lys Ile Lys Leu Gly Ile Gln Gln Leu Lys Asp Ala Ala  
                                   340                                  345                                  350  
 Glu Arg Glu Lys Leu Lys Ser Gln Glu Ile Phe Leu Asn Leu Lys Thr  
                                   355                                  360                                  365  
 Ala Leu Glu Lys Tyr His Asp Gly Ile Glu Lys Ala Ala Glu Asp Ser  
           370                                  375                                  380  
 Tyr Ala Lys Ile Asp Glu Lys Thr Ala Glu Leu Lys Arg Lys Met Phe  
 385                                  390                                  395                                  400  
 Lys Met Ser Thr

<210> 1933  
 <211> 1836  
 <212> DNA  
 <213> Homo sapiens

<400> 1933  
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 aaacttccaa gatggaact ttgtctttcc ccagatataa tgtagctgag attgtgattc 180  
 atattcgcaa taagatctta acaggagctg atggtaaaaa cctcaccaag aatgatcttt 240  
 atccaaatcc aaagcctgaa gtcttgacac tgatctacat gagagcctta caaatagtat 300  
 atggaattcg actggaacat ttttacatga tgccagttaa ctctgaagtc atgtatccac 360  
 atttaattgga aggtctctta ccattcagca atttagttac tcatctggac tcatttttgc 420  
 ctatctgccg ggtgaatgac tttgagactg ctgatattct atgtccaaaa gcaaacgga 480  
 caagtcggtt tttaagtggc attatcaact ttattcactt cagagaagca tgccgtgaaa 540  
 cgtatatgga atttcttttg caatataaat cctctgcgga caaaatgcaa cagttaaacg 600  
 ccgcacacca ggaggcatta atgaaactgg agagacttga ttctgttcca gttgaagagc 660  
 aagaagagtt caagcagctt tcagatggta ttcaggagct acaacaatca cttaatcagg 720  
 attttcatca aaaaacgata gtgctgcaag agggaaattc caaaagaag tcaaatattt 780  
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 aaaagaaaaat acaggacctt tcagataata gggaaaaatt agccagtatc ttaaaggaga 1080  
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 aagaaaattc gttcaaaaaga ctgatgattg tgaagaagga aaaacttgcc acagcacaat 1200  
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 ttgaaaaggc agcagaggac tcctatgcta agatagatga gaagacagct gaactgaaga 1500  
 ggaagatggt caaaatgtca acctgattaa caaaattaca tgtctttttg taaatggctt 1560  
 gccatctttt aattttctat ttagaaagaa aagttgaagc gaatggaagt atcagaagta 1620  
 ccaaataatg ttggcttcat cagtttttat acactctcat aagtagttaa taagatgaat 1680



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<210> 1934
<211> 464
<212> PRT
<213> Homo sapiens
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| Met<br>1   | Glu        | Thr        | Leu        | Ser<br>5   | Phe        | Pro        | Arg        | Tyr        | Asn<br>10  | Val        | Ala        | Glu        | Ile        | Val<br>15 | Ile |
| His        | Ile        | Arg        | Asn<br>20  | Lys        | Ile        | Leu        | Thr        | Gly<br>25  | Ala        | Asp        | Gly        | Lys        | Asn<br>30  | Leu       | Thr |
| Lys        | Asn<br>35  | Asp        | Leu        | Tyr        | Pro        | Asn<br>40  | Pro        | Lys        | Pro        | Glu        | Val        | Leu<br>45  | His        | Met       | Ile |
| Tyr<br>50  | Met        | Arg        | Ala        | Leu        | Gln<br>55  | Ile        | Val        | Tyr        | Gly        | Ile        | Arg<br>60  | Leu        | Glu        | His       | Phe |
| Tyr<br>65  | Met        | Met        | Pro        | Val        | Asn<br>70  | Ser        | Glu        | Val        | Met        | Tyr<br>75  | Pro        | His        | Leu        | Met       | Glu |
| Gly        | Phe        | Leu        | Pro<br>85  | Phe        | Ser        | Asn        | Leu        | Val<br>90  | Thr        | His        | Leu        | Asp        | Ser<br>95  | Phe       | Leu |
| Pro        | Ile        | Cys<br>100 | Arg        | Val        | Asn        | Asp        | Phe<br>105 | Glu        | Thr        | Ala        | Asp        | Ile<br>110 | Leu        | Cys       | Pro |
| Lys        | Ala<br>115 | Lys        | Arg        | Thr        | Ser        | Arg<br>120 | Phe        | Leu        | Ser        | Gly        | Ile        | Ile<br>125 | Asn        | Phe       | Ile |
| His<br>130 | Phe        | Arg        | Glu        | Ala        | Cys<br>135 | Arg        | Glu        | Thr        | Tyr        | Met<br>140 | Glu        | Phe        | Leu        | Trp       | Gln |
| Tyr<br>145 | Lys        | Ser        | Ser        | Ala<br>150 | Asp        | Lys        | Met        | Gln        | Gln        | Leu<br>155 | Asn        | Ala        | Ala        | His       | Gln |
| Glu        | Ala        | Leu        | Met<br>165 | Lys        | Leu        | Glu        | Arg        | Leu<br>170 | Asp        | Ser        | Val        | Pro        | Val<br>175 | Glu       | Glu |
| Gln        | Glu        | Glu        | Phe<br>180 | Lys        | Gln        | Leu        | Ser        | Asp<br>185 | Gly        | Ile        | Gln        | Glu        | Leu<br>190 | Gln       | Gln |
| Ser        | Leu<br>195 | Asn        | Gln        | Asp        | Phe        | His<br>200 | Gln        | Lys        | Thr        | Ile        | Val<br>205 | Leu        | Gln        | Glu       | Gly |
| Asn<br>210 | Ser        | Gln        | Lys        | Lys        | Ser<br>215 | Asn        | Ile        | Ser        | Glu        | Lys<br>220 | Thr        | Lys        | Arg        | Leu       | Asn |
| Glu<br>225 | Leu        | Lys        | Leu        | Leu<br>230 | Val        | Val        | Ser        | Leu        | Lys        | Glu<br>235 | Ile        | Gln        | Glu        | Ser       | Leu |
| Lys        | Thr        | Lys        | Ile<br>245 | Val        | Asp        | Ser        | Pro        | Glu        | Lys<br>250 | Leu        | Lys        | Asn        | Tyr        | Lys       | Glu |
| Lys        | Met        | Lys        | Asp<br>260 | Thr        | Val        | Gln        | Lys<br>265 | Leu        | Lys        | Asn        | Ala        | Arg        | Gln        | Glu       | Val |
| Val        | Glu<br>275 | Lys        | Tyr        | Glu        | Ile        | Tyr<br>280 | Gly        | Asp        | Ser        | Val        | Asp<br>285 | Cys        | Leu        | Pro       | Ser |
| Cys<br>290 | Gln        | Leu        | Glu        | Val        | Gln<br>295 | Leu        | Tyr        | Gln        | Lys        | Lys<br>300 | Ile        | Gln        | Asp        | Leu       | Ser |
| Asp<br>305 | Asn        | Arg        | Glu        | Lys<br>310 | Leu        | Ala        | Ser        | Ile        | Leu        | Lys<br>315 | Glu        | Ser        | Leu        | Asn       | Leu |
| Glu        | Asp        | Gln        | Ile<br>325 | Glu        | Ser        | Asp        | Glu        | Ser<br>330 | Glu        | Leu        | Lys        | Lys        | Leu        | Lys       | Thr |
| Glu        | Glu        | Asn<br>340 | Ser        | Phe        | Lys        | Arg<br>345 | Leu        | Met        | Ile        | Val        | Lys<br>350 | Lys        | Glu        | Lys       | Leu |

|            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <400> 1937 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Arg        | Cys | His | Ala | His | Gly | Pro | Ser | Cys | Leu | Val | Thr | Ala | Ile | Thr | Arg |
| 1          |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |
| Glu        | Glu | Gly | Gly | Pro | Arg | Ser | Gly | Gly | Ala | Gln | Ala | Lys | Leu | Gly | Cys |
|            |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |     |     |
| Cys        | Trp | Gly | Tyr | Pro | Ser | Pro | Arg | Ser | Thr | Trp | Asn | Pro | Asp | Arg | Arg |
|            |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |     |     |     |
| Phe        | Trp | Thr | Pro | Gln | Thr | Gly | Pro | Gly | Glu | Gly | Arg | His | Glu | Arg | His |
|            | 50  |     |     |     |     | 55  |     |     |     |     | 60  |     |     |     |     |
| Thr        | Gln | Thr | Gln | Asn | His | Thr | Ala | Ser | Pro | Arg | Ser | Pro | Val | Met | Glu |
| 65         |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |

Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His Leu  
                             85                            90                            95  
 Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys Ala  
                             100                            105                            110  
 Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile  
                             115                            120                            125  
 Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys Glu  
                             130                            135                            140  
 Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val  
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<210> 1938  
 <211> 486  
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 agaagcacct ggaaccccgga cagaagattc tggactcccc agacgggacc aggagagggga 180  
 cgcatgagc gacacacaca aacacagaac cacacagcca gtcccaggag cccagtaatg 240  
 gagagcccca aaaagaagaa ccagcagctg aaagtcggga tcctacacct gggcagcaga 300  
 cagaagaaga tcaggataca gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360  
 agctgcatca gtcaaacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420  
 ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 480  
 taatga 486

<210> 1939  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> PCR primer

<400> 1939  
 ctatgttgca tatatgcggt gccacgcc

28

<210> 1940  
 <211> 160  
 <212> PRT  
 <213> Homo sapiens

<400> 1940  
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr  
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 Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly  
                             20                            25                            30  
 Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg  
                             35                            40                            45  
 Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg  
                             50                            55                            60  
 His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met

4007457400

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 65  |     |     |     |     | 70  |     |     |     |     | 75  |     |     |     |     | 80  |
| Glu | Ser | Pro | Lys | Lys | Lys | Asn | Gln | Gln | Leu | Lys | Val | Gly | Ile | Leu | His |
|     |     |     |     | 85  |     |     |     |     | 90  |     |     |     |     | 95  |     |
| Leu | Gly | Ser | Arg | Gln | Lys | Lys | Ile | Arg | Ile | Gln | Leu | Arg | Ser | Gln | Cys |
|     |     |     | 100 |     |     |     |     | 105 |     |     |     |     | 110 |     |     |
| Ala | Thr | Trp | Lys | Val | Ile | Cys | Lys | Ser | Cys | Ile | Ser | Gln | Thr | Pro | Gly |
|     |     | 115 |     |     |     |     | 120 |     |     |     |     | 125 |     |     |     |
| Ile | Asn | Leu | Asp | Leu | Gly | Ser | Gly | Val | Lys | Val | Lys | Ile | Ile | Pro | Lys |
|     | 130 |     |     |     |     | 135 |     |     |     |     | 140 |     |     |     |     |
| Glu | Glu | His | Cys | Lys | Met | Pro | Glu | Ala | Gly | Glu | Glu | Gln | Pro | Gln | Val |
| 145 |     |     |     |     | 150 |     |     |     |     | 155 |     |     |     |     | 160 |

<210> 1941  
 <211> 486  
 <212> DNA  
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 agaagcacct ggaaccccga cagaagattc tggactcccc agacgggacc aggagagggga 180  
 cgcatgagc gacacacaca aacacagaac cacacagcca gtcccaggag cccagtaatg 240  
 gagagcccca aaaagaagaa ccagcagctg aaagtcggga tcctacacct gggcagcaga 300  
 cagaagaaga tcaggataca gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360  
 agctgcatca gtcaaacacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420  
 ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 480  
 taatga 486

<210> 1942  
 <211> 19  
 <212> PRT  
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<400> 1942  
 Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Asp  
 1 5 10 15  
 Arg Pro Phe

<210> 1943  
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 <212> PRT  
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<400> 1943  
 Cys Ser Leu Gly Val Phe Pro Ser Ala Pro Ser Pro Val Trp Gly Thr  
 1 5 10 15  
 Arg Arg Ser Cys  
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<210> 1944

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<211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1944  
 Ile Leu Ser Pro Leu Leu Arg His Gly Gly His Thr Gln Thr Gln Asn  
 1 5 10 15  
 His Thr Ala Ser  
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<210> 1945  
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<400> 1945  
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr  
 1 5 10 15  
 Arg Glu Glu Gly  
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<210> 1946  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1946  
 His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly  
 1 5 10 15  
 Pro Arg Ser Gly  
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<210> 1947  
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 <212> PRT  
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<400> 1947  
 Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly  
 1 5 10 15  
 Ala Gln Ala Lys  
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<210> 1948  
 <211> 20  
 <212> PRT  
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<400> 1948  
 Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu

1007452001

1 5 10 15  
 Gly Cys Cys Trp  
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<210> 1949  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1949  
 Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly  
 1 5 10 15  
 Tyr Pro Ser Pro  
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<210> 1950  
 <211> 20  
 <212> PRT  
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<400> 1950  
 Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg  
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 Ser Thr Trp Asn  
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<210> 1951  
 <211> 20  
 <212> PRT  
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<400> 1951  
 Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro  
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 Asp Arg Arg Phe  
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<210> 1952  
 <211> 20  
 <212> PRT  
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<400> 1952  
 Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp  
 1 5 10 15  
 Thr Pro Gln Thr  
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<210> 1953

100754-10690

<211> 20  
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<400> 1953  
 Arg Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly  
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 Pro Gly Glu Gly  
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<210> 1954  
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<400> 1954  
 Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg  
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 His Glu Arg His  
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<210> 1955  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1955  
 Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg His Thr  
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 Gln Thr Gln Asn  
 20

<210> 1956  
 <211> 20  
 <212> PRT  
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<400> 1956  
 Gly Pro Gly Glu Gly Arg His Glu Arg His Thr Gln Thr Gln Asn His  
 1 5 10 15  
 Thr Ala Ser Pro  
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<210> 1957  
 <211> 20  
 <212> PRT  
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<400> 1957  
 Arg His Glu Arg His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg

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1                      5                      10                      15  
 Ser Pro Val Met  
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<210> 1958  
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 <212> PRT  
 <213> Homo sapiens

<400> 1958  
 Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met Glu  
 1                      5                      10                      15  
 Ser Pro Lys Lys  
                     20

<210> 1959  
 <211> 20  
 <212> PRT  
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<400> 1959  
 His Thr Ala Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys  
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 Asn Gln Gln Leu  
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<210> 1960  
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 <212> PRT  
 <213> Homo sapiens

<400> 1960  
 Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys  
 1                      5                      10                      15  
 Val Gly Ile Leu  
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<210> 1961  
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 <212> PRT  
 <213> Homo sapiens

<400> 1961  
 Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His  
 1                      5                      10                      15  
 Leu Gly Ser Arg  
                     20

<210> 1962

1001751090



<400> 1966  
Ile Gln Leu Arg Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser

1                    5                    10                    15  
 Cys Ile Ser Gln  
                   20

<210> 1967  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1967  
 Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln  
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 Thr Pro Gly Ile Asn  
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<210> 1968  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1968  
 Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu  
   1                    5                    10                    15  
 Asp Leu Gly Ser  
                   20

<210> 1969  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1969  
 Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly  
   1                    5                    10                    15  
 Val Lys Val Lys  
                   20

<210> 1970  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 1970  
 Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile  
   1                    5                    10                    15  
 Ile Pro Lys Glu  
                   20

<210> 1971

100754-100754

<211> 20  
 <212> PRT  
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<400> 1971  
 Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys Glu Glu  
 1 5 10 15  
 His Cys Lys Met  
 20

<210> 1972  
 <211> 20  
 <212> PRT  
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<400> 1972  
 Gly Val Lys Val Lys Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro  
 1 5 10 15  
 Glu Ala Gly Glu  
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<210> 1973  
 <211> 20  
 <212> PRT  
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<400> 1973  
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 1 5 10 15  
 Gln Pro Gln Val  
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<210> 1974  
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<400> 1974  
 atgcggtgcc acgcccattg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60

<210> 1975  
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 <212> DNA  
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<400> 1975  
 catggacctt cttgtctcgt cacggccata actagggagg aaggagggcc gaggagtgga 60

<210> 1976

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<211> 60  
<212> DNA  
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<400> 1976  
ctcgtcacgg ccataactag ggaggaagga gggccgagga gtggaggggc tcaggcgaag 60

<210> 1977  
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<400> 1977  
actagggagg aaggagggcc gaggagtga ggggctcagg cgaagctggg gtgctgttg 60

<210> 1978  
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<212> DNA  
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<400> 1978  
gggccgagga gtggaggggc tcaggcgaag ctggggtgct gttgggggta tccgagtccc 60

<210> 1979  
<211> 60  
<212> DNA  
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<400> 1979  
ggggctcagg cgaagctggg gtgctgttg gggatatccga gtcccagaag cacctggaac 60

<210> 1980  
<211> 60  
<212> DNA  
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<400> 1980  
ctggggtgct gttgggggta tccgagtccc agaagcacct ggaacccga cagaagattc 60

<210> 1981  
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<212> DNA  
<213> Homo sapiens

<400> 1981  
gggtatccga gtcccagaag cacctggaac cccgacagaa gattctggac tcccagacg 60

<210> 1982

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<210> 1988

<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 1988  
cacacagcca gtcccaggag cccagtaatg gagagcccca aaaagaagaa ccagcagctg 60

<210> 1989  
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<212> DNA  
<213> Homo sapiens

<400> 1989  
aggagcccag taatggagag ccccaaaaag aagaaccagc agctgaaagt cgggataccta 60

<210> 1990  
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<212> DNA  
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<400> 1990  
gagagcccca aaaagaagaa ccagcagctg aaagtcggga tcctacacct gggcagcaga 60

<210> 1991  
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aagaaccagc agctgaaagt cgggataccta cacctgggca gcagacagaa gaagatcagg 60

<210> 1992  
<211> 60  
<212> DNA  
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<400> 1992  
aaagtcggga tcctacacct gggcagcaga cagaagaaga tcaggatata gctgagatcc 60

<210> 1993  
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<212> DNA  
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<400> 1993  
cacctgggca gcagacagaa gaagatcagg atacagctga gatcccagtg cgcgacatgg 60

<210> 1994

<210> 2000





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| 5   |     |     |     |     |     |     |     | 10  |     |     |     | 15  |     |     |     |
| Val | Ala | Pro | His | Asn | Gly | Tyr | Pro | Val | Thr | Pro | Gly | Ile | Met | Ser | His |
| 20  |     |     |     | 25  |     |     |     | 30  |     |     |     |     |     |     |     |
| Val | Pro | Leu | Tyr | Pro | Asn | Ser | Gln | Pro | Gln | Val | His | Leu | Val | Pro | Gly |
| 35  |     |     |     | 40  |     |     |     | 45  |     |     |     |     |     |     |     |
| Asn | Pro | Pro | Ser | Leu | Val | Ser | Asn | Val | Asn | Gly | Gln | Pro | Val | Gln | Lys |
| 50  |     |     |     | 55  |     |     |     | 60  |     |     |     |     |     |     |     |
| Ala | Leu | Lys | Glu | Gly | Lys | Thr | Leu | Gly | Ala | Ile | Gln | Ile | Ile | Ile | Gly |
| 65  |     |     |     | 70  |     |     |     | 75  |     |     |     | 80  |     |     |     |
| Leu | Ala | His | Ile | Gly | Leu | Gly | Ser | Ile | Met | Ala | Thr | Val | Leu | Val | Gly |
|     |     |     |     | 85  |     |     |     | 90  |     |     |     | 95  |     |     |     |
| Glu | Tyr | Leu | Ser | Ile | Ser | Phe | Tyr | Gly | Gly | Phe | Pro | Phe | Trp | Gly | Gly |
|     |     |     |     | 100 |     |     |     | 105 |     |     |     | 110 |     |     |     |
| Leu | Trp | Phe | Ile | Ile | Ser | Gly | Ser | Leu | Ser | Val | Ala | Ala | Glu | Asn | Gln |
|     |     |     |     | 115 |     |     |     | 120 |     |     |     | 125 |     |     |     |
| Pro | Tyr | Ser | Tyr | Cys | Leu | Leu | Ser | Gly | Ser | Leu | Gly | Leu | Asn | Ile | Val |
|     |     |     |     | 130 |     |     |     | 135 |     |     |     | 140 |     |     |     |
| Ser | Ala | Ile | Cys | Ser | Ala | Val | Gly | Val | Ile | Leu | Phe | Ile | Thr | Asp | Leu |
| 145 |     |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |     |     |
| Ser | Ile | Pro | His | Pro | Tyr | Ala | Tyr | Pro | Asp | Tyr | Tyr | Pro | Tyr | Ala | Trp |
|     |     |     |     | 165 |     |     |     | 170 |     |     |     | 175 |     |     |     |
| Gly | Val | Asn | Pro | Gly | Met | Ala | Ile | Ser | Gly | Val | Leu | Leu | Val | Phe | Cys |
|     |     |     |     | 180 |     |     |     | 185 |     |     |     | 190 |     |     |     |
| Leu | Leu | Glu | Phe | Gly | Ile | Ala | Cys | Ala | Ser | Ser | His | Phe | Gly | Cys | Gln |
|     |     |     |     | 195 |     |     |     | 200 |     |     |     | 205 |     |     |     |
| Leu | Val | Cys | Cys | Gln | Ser | Ser | Asn | Val | Ser | Val | Ile | Tyr | Pro | Asn | Ile |
|     |     |     |     | 210 |     |     |     | 215 |     |     |     | 220 |     |     |     |
| Tyr | Ala | Ala | Asn | Pro | Val | Ile | Thr | Pro | Glu | Pro | Val | Thr | Ser | Pro | Pro |
| 225 |     |     |     | 230 |     |     |     | 235 |     |     |     | 240 |     |     |     |
| Ser | Tyr | Ser | Ser | Glu | Ile | Gln | Ala | Asn | Lys |     |     |     |     |     |     |
|     |     |     |     | 245 |     |     |     | 250 |     |     |     |     |     |     |     |